88064865

TN
859
.C64
R564
no.9
Sect.2.3-
2.4.10

NINTH QUARTERLY DATA REPORT
FOR THE
TERRESTRIAL BASELINE DATA ACCUMULATION PROGRAM
RIO BLANCO OIL SHALE PROJECT

BLM Library
D-553A, Building 50
Denver Federal Center
P. O. Box 25047
Denver, CO 80225-0047

submitted to
RIO BLANCO OIL SHALE PROJECT
Denver, Colorado

from
ECOLOGY CONSULTANTS, INCORPORATED
Fort Collins, Colorado

January 1977

EXECUTIVE SUMMARY

Ecology Consultants, Incorporated has been contracted to perform a Terrestrial Baseline Data Accumulation Program for RBOSP on Tract C-a. Communication of the scope and results of that program is accomplished in a series of quarterly reports. This ninth report in that series contains summarized results and preliminary interpretations (where feasible) for those terrestrial programs conducted during the fall quarter, September 1976 through November 1976. This is the last quarterly report and presents all results of the last quarter of the Terrestrial Baseline Data Accumulation Program. All data collected during the course of this program are presented in the nine quarterly reports. Definitive interpretations and a complete synthesis of all program results for the entire two-year study were developed in the Final Report (December 1976).

INTRODUCTION

This report presents and summarizes terrestrial baseline data gathered during the ninth quarter (September 1976 through November 1976) on Oil Shale Tract C-a and its environs. Fall quarter data are reported and discussed for vegetation, small mammal, large mammal, and invertebrate program elements. Limited interpretation of those data is provided wherever relevant. All raw data reported for the fall, 1976 quarter are organized in appendices which appear as separate sub-sections under each of the major categories of investigation.

TABLE OF CONTENTS

2.3	TERRESTRIAL STUDIES	2.3-1
2.3.1	Vegetation	2.3-1
2.3.1.3	Results	2.3-1
2.3.1.3.1	Data Organization and Content	2.3-1
2.3.1.3.2	Floristics	2.3-1
2.3.1.3.3	Data Presentation	2.3-1
2.3.1.5	Vegetation Raw Data	2.3-33
2.3.2	Grazing Exclosure (no data collected)	
2.3.3	Small Mammals	2.3-34
2.3.3.3	Results	2.3-34
2.3.3.1	Live Trapping	2.3-34
2.3.3.3.2	Pitfall Trapping	2.3-48
2.3.3.3.3	Stomach Analysis and Reproductive Effort	2.3-48
2.3.3.3.4	Night Spotlight Census	2.3-62
2.3.3.5	Small Mammal Raw Data	2.3-66
2.3.4	Large Mammals	2.3-67
2.3.4.3	Results	2.3-67
2.3.4.2.1	Pellet Group Counts	2.3-67
2.3.4.5	Large Mammal Raw Data	2.3-69
2.3.5	Mammalian Predators (no data collected)	
2.3.6	Winter Track Count (no data collected)	
2.3.7	Avifauna (no data collected)	
2.3.8	Reptiles and Amphibians (no data collected)	
2.3.9	Terrestrial Invertebrates	2.3-70
2.3.9.3	Results	2.3-70
2.3.9.5	Terrestrial Invertebrates Raw Data	2.3-157
2.3.10	Domestic Livestock (no data collected)	
2.3.11	Remote Sensing (no data collected)	
2.3.12	Threatened and Endangered Species (no data collected)	

LIST OF TABLES

TABLE		PAGE
2.3-1	Additions to the list of plant species observed during September, 1976 in the vicinity of Tract C-a for RBOSP.	2.3-2
2.3-2	Species encountered in the mature tree stratum of the aspen type during September, 1976, for RBOSP	2.3-5
2.3-3	Species encountered in the shrub-seedling stratum of the aspen type during September, 1976, for RBOSP	2.3-6
2.3-4	Species encountered in the herbaceous stratum of the aspen type during September, 1976 for RBOSP	2.3-7
2.3-5	Species encountered in the mature tree stratum of the Douglas-fir type during September, 1976 for RBOSP	2.3-8
2.3-6	Species encountered in the shrub-seedling stratum of the Douglas-fir type during September, 1976 for RBOSP.	2.3-9
2.3-7	Species encountered in the herbaceous stratum of the Douglas-fir type during September, 1976 for RBOSP	2.3-11
2.3-8	Species encountered in the shrub-seedling stratum of themixed brush type during September, 1976 for RBOSP	2.3-12
2.3-9	Species encountered in the herbaceous stratum of the mixed brush type during September, 1976 for RBOSP.	2.3-13
2.3-10	Species encountered in the mature tree stratum of the pinyon-juniper type during September, 1976 for RBOSP	2.3-15
2.3-11	Species encountered in the shrub-seedling stratum of the pinypn-juniper type during September, 1976 for RBOSP	2.3-17
2.3-12	Species encountered in the herbaceous stratum of the pinyon-juniper type during September, 1976 for RBOSP	2.3-18

TABLE		PAGE
2.3-13	Species encountered in the shrub-seedling stratum of the sagebrush type during September, 1976 for RBOSP	2.3-20
2.3-14	Species encountered in the herbaceous stratum of the sagebrush type during September, 1976 for RBOSP	2.3-21
2.3-15	Species encountered in the herbaceous stratum of the greasewood type during September, 1976 for RBOSP	2.3-23
2.3-16	Species encountered in the herbaceous stratum of the rabbitbrush type during September, 1976 for RBOSP	2.3-25
2.3-17	Species encountered in the shrub-seedling stratum of the bald type during September, 1976 for RBOSP	2.3-26
2.3-18	Species encountered in the herbaceous stratum of the bald type during September, 1976 for RBOSP	2.3-27
2.3-19	Species encountered in the herbaceous stratum of the shadscale type during September, 1976 for RBOSP	2.3-29
2.3-20	Species encountered in the shrub-seedling of the riparian type during September, 1976 for RBOSP	2.3-31
2.3-21	Species encountered in the herbaceous stratum of the riparian type during September, 1976 for RBOSP	2.3-32
2.3-22	Summary of trapping results for all small mammal species captured at all grids during sample period 9, September, 1976, for RBOSP.	2.3-35
2.3-23	Summary of trapping results for Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 9, September, 1976, for RBOSP.	2.3-37
2.3-24	Summary of trapping results for Spermophilus tridecemlineatus (thirteen-lined ground sqr.) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-38
2.3-25	Summary of trapping results for Eutamias minimus (least chipmunk) on all small mammal grids during sample period 9, September, 1976, for RBOSP.	2.3-39

TABLE		PAGE
2.3-26	Summary of trapping results for Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-40
2.3-27	Summary of trapping results for Peromyscus maniculatus (deer mouse) on all small animal grids during sample period 9, September 1976 for RBOSP.	2.3-41
2.3-28	Summary of trapping results for Peromyscus truei (pinon mouse) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-42
2.3-29	Summary of trapping results for Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-43
2.3-30	Summary of trapping results for Clethrionomys gapperi (grd-backed vole) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-44
2.3-31	Summary of trapping results for Microtus montanus (montane vole) on all small mammal grids during sample period 9, September, 1976, for RBOSP.	2.3-45
2.3-32	Summary of trapping resuelts for Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-46
2.3-33	Summary of trapping results for Lagurus curtatus (sagebrush vole) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-47
2.3-34	Average live weights (gm) for adult Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 9, September 1976 for RBOSP.	2.3-49
2.3-35	Average live weights (gm) for adult Spermophilus tridecemlineatus (thirteen-lined grd. sqr.) on all small mammal grids during sample period 9, September 1976, for RBOSP.	2.3-50
2.3-36	Average live weights (gm) for adult Eutamias minimus (least chipmunk) on all small mammal grids during sample period 9, September, 1976 for RBOSP.	2.3-51

TABLE		PAGE
2.3-37	Average live weights (gm) for adult Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-52
2.3-38	Average live weights (gm) for adult Peromyscus truei (pinon mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-53
2.3-39	Average live weights (gm) for adult Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-54
2.3-40	Average live weights (gm) for adult Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-55
2.3-41	Average live weights (gm) for adult Microtus montanus (montane vole) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-56
2.3-42	Average live weights (gm) for adult Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-57
2.3-43	Average live weights (gm) for adult Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 9, September, 1976 for RBOSP	2.3-58
2.3-44	Average live weights (gm) for adult Lagurus curtatus (sagebrush vole) on all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-59
2.3-45	Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all small mammal grids during sample period 9, September 1976, for RBOSP	2.3-60
2.3-46	Summary of reproductive data for deer mice, least chipmunks, and long-tailed voles collected during July 1976 for RBOSP	2.3-61
2.3-47	Summary of stomach analysis data for deer mice, least chipmunks, and long-tailed voles collected during July 1976 for RBOSP	2.3-63

TABLE		PAGE
2.3-48	Results of the night spotlight census conducted on October 26 and 27, 1976 for RBOSP	2.3-65
2.3-49	Big game pellet groups accumulated during summer 1976 on 13 transects on and near Tract C-a for RBOSP	2.3-68
2.3-50	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 1, greasewood-sagebrush, during July 1976 for RBOSP	2.3-71
2.3-51	Numbers and percentages of invertebrates within each feeding type taken in pitfall trap samples at each site during July 1976 for RBOSP	2.3-72
2.3-52	Relative abundance and population density estimates for ground dwelling invertebrates collected by pitfall traps at site 1, greasewood-sagebrush, during September 1976 for RBOSP	2.3-73
2.3-53	Numbers and percentages of invertebrates within each feeding type taken in pitfall trap samples at each site during September 1976 for RBOSP	2.3-74
2.3-54	Results of litter d-vac invertebrate sampling at site 1, greasewood-sagebrush, during July 1976 for RBOSP	2.3-75
2.3-55	Average number of invertebrates collected from litter by the d-vac method at each sampling site during July 1976 for RBOSP	2.3-76
2.3-56	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during July 1976 for RBOSP	2.3-77
2.3-57	Numbers and percentages of invertebrates within each feeding type taken in litter D-vac samples at each site during July 1976 for RBOSP	2.3-79
2.3-58	Average number of invertebrates collected from litter by the d-vac method at each sampling site during September 1976 for RBOSP	2.3-80
2.3-59	Results of litter d-vac invertebrate sampling at site 1, greasewood-sagebrush, during September 1976 for RBOSP	2.3-81

TABLE		PAGE
2.3-60	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during September 1976 for RBOSP	2.3-82
2.3-61	Numbers and percentages of invertebrates within each feeding type taken in litter D-vac samples at each site during September 1976 for RBOSP	2.3-85
2.3-62	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during 1976 for RBOSP	2.3-86
2.3-63	Numbers and percentages of invertebrates within each feeding type taken in ground layer herbaceous sweep samples at each site during July 1976 for RBOSP	2.3-88
2.3-64	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during September 1976 for RBOSP	2.3-89
2.3-65	Numbers and percentages of invertebrates within each feeding type taken in ground layer herbaceous sweep samples at each site during september 1976 for RBOSP	2.3-91
2.3-66	Number of species groups (A) and total number of individuals (B) for invertebrates taxa collected by trap D-vac sampling at all sites during July 1976 for RBOSP	2.3-92
2.3-67	Results of trap D-vac invertebrate sampling from rabbitbrush (Chrysothamnus nauseosus) at site 1, greasewood-sagebrush, during July 1976 for RBOSP	2.3-94
2.3-68	Average number of invertebrates collected from selected plant species by the trap d-vac method at each sampling site during July 1976 for RBOSP	2.3-95
2.3-69	Numbers and percentages of invertebrates within each feeding type taken in trap D-vac samples at each site during July 1976 for RBOSP	2.3-96
2.3-70	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by trap D-vac sampling at all sites during September 1976 for RBOSP	2.3-97

TABLE		PAGE
2.3-71	Results of trap d-vac invertebrate sampling from rabbitbrush (Chrysothamnus nauseosus) at site 1, greasewood-sagebrush, during September 1976, for RBOSP	2.3-99
2.3-72	Average number of invertebrates collected from selected plant species by the trap d-vac method at each sampling site during September 1976 for RBOSP	2.3-100
2.3-73	Numbers and percentages of invertebrates within each feeding type taken in trap D-vac samples at each site during September 1976 for RBOSP	2.3-101
2.3-74	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during July 1976 for RBOSP	2.3-103
2.3-75	Numbers and percentages of invertebrates within each feeding type taken in beating samples at each site during July 1976 for RBOSP	2.3-105
2.3-76	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during September 1976 for RBOSP	2.3-106
2.3-77	Numbers and percentages of invertebrates within each feeding type taken in beating samples at each site during September 1976 for RBOSP	2.3-108
2.3-78	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during July 1976 for RBOSP	2.3-109
2.3-79	Numbers and percentages of invertebrates within each feeding type taken in aerial sweep samples at each site during July 1976 for RBOSP	2.3-111
2.3-80	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during September 1976 for RBOSP	2.3-112

TABLE		PAGE
2.3-81	Numbers and percentages of invertebrates within each feeding type taken in aerial sweep samples at each site during September 1976 for RBOSP	2.3-114
2.3-82	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during July 1976 for RBOSP	2.3-115
2.3-83	Numbers and percentages of invertebrates within each feeding type taken in Malaise trap samples at each site during July 1976 for RBOSP	2.3-118
2.3-84	Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during September 1976 for RBOSP	2.3-119
2.3-85	Numbers and percentages of invertebrates within each feeding type taken in Malaise trap samples at each site during September 1976 for RBOSP	2.3-121
2.3-86	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP	2.3-123
2.3-87	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP	2.3-124
2.3-8	Results of litter d-vac invertebrate sampling at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP	2.3-125
2.3-89	Results of litter d-vac invertebrate sampling at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP	2.3-126
2.3-90	Results of trap d-vac invertebrate sampling from shadscale (Atriplex confertifolia) at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP	2.3-128
2.3-91	Results of trap d-vac invertebrate sampling from shadscale (Atriplex confertifolia) at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP	2.3-129

TABLE		PAGE
2.3-92	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP	2.3-131
2.3-93	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP	2.3-132
2.3-94	Results of litter d-vac invertebrate sampling at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP	2.3-134
2.3-95	Results of litter d-vac invertebrate sampling at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP	2.3-135
2.3-96	Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP	2.3-96
2.3-97	Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP	2.3-137
2.3-98	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 4, sagebrush, during July 1976 for RBOSP	2.3-140
2.3-99	Relative abundance and population density estimates for ground dwelling invertebrates collected by pit-fall traps at site 4, sagebrush, during September 1976 for RBOSP	2.3-141
2.3-100	Results of litter d-vac invertebrate sampling at site 4, sagebrush, during July 1976 for RBOSP	2.3-142
2.3-101	Results of litter d-vac invertebrate sampling at site 4, sagebrush, during September 1976 for RBOSP	2.3-143
2.3-102	Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 4, sage-brush, during July 1976 for RBOSP	2.3-145

TABLE		PAGE
2.3-103	Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 4, sagebrush, during September 1976 for RBOSP	2.3-146
2.3-104	Relative abundance and population density estimates for ground dwelling invertebrates collected by pitfall traps at site 5, mixed brush, during July 1976 for RBOSP	2.3-147
2.3-105	Relative abundance and population density estimates for ground dwelling invertebrates collected by pitfall traps at site 5, mixed brush, during September 1976 for RBOSP	2.3-148
2.3-106	Results of litter d-vac invertebrate sampling at site 5, mixed brush, during July 1976 for RBOSP	2.3-150
2.3-107	Results of litter d-vac invertebrate sampling at site 5, mixed brush, during September 1976 for RBOSP	2.3-151
2.3-108	Results of trap d-vac invertebrate sampling from serviceberry (Amelanchier utahensis) at site 5, mixed brush, during July 1976 for RBOSP	2.3-152
2.3-109	Results of trap d-vac invertebrate sampling from serviceberry (Amelanchier utahensis) at site 5A, mixed brush, during September 1976 for RBOSP	2.3-153
2.3-110	Results of trap d-vac invertebrate sampling from snowberry (Symphoricarpos oreophilus) at site 5B, mixed brush, during July 1976 for RBOSP	2.3-155
2.3-111	Results of trap d-vac invertebrate sampling from snowberry (Symphoricarpos oreophilus) at site 5B, mixed brush, during September 1976 for RBOSP	2.3-156

2.3.1 VEGETATION

2.3 TERRESTRIAL STUDIES

2.3.1 Vegetation

2.3.1.3 Results

2.3.1.3.1 Data Organization and Content

Ten different vegetation types were sampled on or near Tract C-a during September 1976 (fall quarter). The herbaceous stratum was sampled in all 10 vegetation types along 35 permanent transects during September 1976 while 27 non-permanent transects were surveyed for shrub-seedling and mature tree stratum data in the ten vegetation types during the same period.

Raw data, taken from data sheets presented in section 2.3.1.5 of this report are summarized and included in tables presented throughout this section. These data summary tables provide the basis for the verbal data presentation (section 2.3.1.3.3 of this report) and are organized by vegetation type. Each life form occurring within a type (herbaceous, shrub-tree seedling, mature tree) is discussed separately to demonstrate important differences between strata within a type.

Important parameters describing the structural and compositional nature of each stratum within each vegetation type are presented and discussed.

2.3.1.3.2 Floristics

Table 3-7-3 of the Second Annual Report (RBOSP, 1976) provides a comprehensive list of vegetative species encountered on the Tract C-a study area. New plant species encountered on the study area subsequent to the publication of the Second Annual Report are listed in Quarterly Reports. Table 2.3-1 of this quarterly report lists the new plant species encountered on the Tract C-a study area this quarter.

2.3.1.3.3 Data Presentation

Aspen - During the fall quarter the aspen type was sampled by two permanent and one non-permanent transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transect while the herbaceous stratum only was measured along the permanent transects. Three strata and 25 different species were identified for the aspen type during September 1976 sampling: 2 species in the mature tree stratum; 6 species in the shrub-tree seedling stratum; and 17 species in the herbaceous stratum. Populus tremuloides and Pseudotsuga menziesii occurred in both the shrub-tree seedling and mature tree strata.

Table 2.3-1. Additions to the list of plant species observed during September, 1976 in the vicinity of Tract C-a for RBOSP (see Section 7.1A, Table 3-7-3 of the Second Annual Report, 1976)

Abbreviation [1]	Species
	SHRUBS
Atnu	Atriplex nuttallii S. Wats; [2] (Chenopodiaceae), [3] Cham, [4] Nuttall saltbush, (N) [5] (V) [6]
Rhtr	Rhus trilobata NuH.; (Anacardiaceae) Phan, skunkbush sumac, (N)(V)
	HERBACEOUS (NON-GRASSLIKE)
Atar	Atriplex hortensis L.; (Chenopodiaceae), Ther, Orache, (I)(V)
Bahy	Bassia hyssopifolia (Pall.) Kuntze; (Chenopodiaceae), Ther, five hook bassia, (I)(V)
Seam	Senecio ambrosioides Rydb.; (Compositae), Ther, groundsel, (N)(V)
Sede	Senecio debilis Nutt.; (Compositae), Hemi, groundsel, (N)(V)
	HERBACEOUS (GRASS-LIKE)
Agal	Agrostis alba L.; (Graminae), Cham, redtop, (I)(V)
Muas	Muhlenbergia asperifolia (Nees et May), Parodi; (Gramineae), alkali muhly, (N)(V)

[1] Abbreviation of genus and species in a four-letter code.

[2] Author citation, nomenclatural authority cited after each species name and delineated by a semicolon.

[3] The family of plants to which a species belongs in parentheses.

[4] Lifeforms of Plants

Phan (Phanerophyte) - Perennating bud at least 0.25 m above soil surface.

Cham (Chamaephyte) - Perennating bud between 0 and 0.25 m above soil surface.

Table 2.3-1 (Continued)

Footnotes (Continued)

4/ Lifeforms of Plants (Continued)

Hemi (Hemicryptophyte) - Perennating bud in soil surface.

Cryp (Cryptophyte) - Perennating buds covered by soil or water.

Ther (Therophyte) - Annual plants, perennating buds contained in seed.

Succ (Succulent) - Stems enlarged; serve as water storage organ.

5/ Origin of plant species

(N) - Native to the North American continent.

(I) - Introduced from outside the North American continent.

6/ (V) - Voucher specimen collected.

The aspen vegetation type was sampled over an elevational range of 2481 to 2652 m (8140 to 8700 ft) where it occurs primarily on deep, loamy soils which are high in organic matter.

The mature tree stratum (Table 2.3-2) consisted of two species, Populus tremuloides and Pseudotsuga menziesii, and contributed a total cover of 51%. Populus tremuloides dominated the mature tree stratum and provided a relative cover of 95%, a density of 867 individuals per hectare and a basal area of 8.22 m^2 per hectare.

Six shrub-tree seedling species contributed a total cover of 87% and a total density of 12,317 individuals per hectare during September 1976 sampling of the aspen shrub-tree seedling stratum (Table 2.3-3). Symphoricarpos oreophilus and Amelanchier utahensis were the dominant species contributing 76% of the total cover.

The herbaceous stratum (Table 2.3-4) was composed of 17 different species contributing a total cover of 21%. Carex geyeri and Bromus marginatus were the dominant herbaceous species contributing nearly 15% of the total herbaceous cover.

Douglas fir - The Douglas-fir type was sampled during September, 1976 by 2 permanent and one non-permanent transects. Shrub-tree seedling and mature tree strata were measured along the non-permanent transects while the herbaceous stratum only was measured along the two permanent transects. Three strata and 24 different species were identified for the Douglas-fir type during July 1976 sampling: one species in the mature tree stratum; 8 species in the shrub-tree seedling stratum; and 15 species in the herbaceous stratum. Pseudotsuga menziesii was encountered in both the shrub-tree seedling and mature tree strata.

The Douglas-fir vegetation type was sampled over an elevational range of 2378 to 2591 m (7800 to 8500 ft) where it occurs on steep slopes with shallow soils.

The mature tree stratum (Table 2.3-5) contained only one species, Pseudotsuga menziesii which contributed a total cover of 10%, occurred at a density of 150 individuals per hectare and a basal area of 2.8 m^2 per hectare.

Eight shrub-tree seedling species contributed a total cover of 92% and a total density of 9,192 individuals per hectare in the Douglas-fir shrub-tree seedling stratum (Table 2.3-6) sampled during the fall quarter. Symphoricarpos oreophilus and Amelanchier utahensis were the dominant shrub species contributing 67% of the total cover in the shrub-tree seedling stratum.

Table 2.3-2. Species encountered in the mature tree stratum of the aspen type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Populus tremuloides	94.53	96.30	71.43	87.42	48.40	100.00	4840.00	866.67	89.67	8.22
Pseudotsuga menziesii	5.47	3.70	28.57	12.58	2.80	40.00	280.00	33.33	10.33	0.95
All species					51.20		5.20.00	900.00		9.17

Table 2.3-3. Species encountered in the shrub-seedling stratum of the aspen type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Symphoricarpos oreophilus	39.27	67.12	21.74	42.71	34.22	100.00	3422.00	8266.67
Amelanchier utahensis	48.35	8.93	21.74	26.34	42.13	100.00	4213.00	1100.00
Populus tremuloides	7.25	10.55	21.74	13.18	6.32	100.00	632.00	1300.00
Rosa woodsii	4.73	12.72	21.74	13.06	4.12	100.00	412.00	1566.67
Acer glabrum	0.16	0.14	4.35	1.55	0.14	20.00	14.00	16.67
Pseudotsuga menziesii	0.23	0.54	8.70	3.16	0.20	40.00	20.00	66.67
All species					87.13		8713.00	12316.67

Table 2.3-4. Species encountered in the herbaceous stratum of the aspen type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Carex geyeri	45.52	23.17	9.65	95.00	965.00	**	**
Carex sp.	1.18	2.44	0.25	10.00	25.00	0.1	1.0
Thalictrum fendleri	1.42	4.88	0.30	20.00	30.00	0.6	3.0
Smilacina stellata	0.24	1.22	0.05	5.00	5.00	0.1	1.0
Pachystima myrsinites	2.12	3.66	0.45	15.00	45.00	0.4	2.3
Galium boreale	1.89	12.20	0.40	50.00	40.00	1.5	2.9
Thermopsis montana	4.25	10.98	0.90	45.00	90.00	1.1	2.3
Valeriana occidentalis	2.12	3.66	0.45	15.00	45.00	0.7	4.3
Bromus marginatus	25.00	13.41	5.30	55.00	530.00	**	**
Osmorhiza depauperata	0.71	3.66	0.15	15.00	15.00	0.6	3.7
Hackelia floribunda	1.42	3.66	0.30	15.00	30.00	0.6	3.7
Geranium richardsonii	1.42	2.44	0.30	10.00	30.00	0.1	1.0
Aster sp.	0.00	1.22	0.00	5.00	0.00	0.1	1.0
Agropyron trachycaulum	0.71	1.22	0.15	5.00	15.00	**	**
Viola canadensis var. rugulo	6.13	8.54	1.30	35.00	130.00	1.7	4.7
Potentilla sp.	0.94	1.22	0.20	5.00	20.00	0.2	3.0
Senecio sp.	4.95	2.44	1.05	10.00	105.00	0.4	3.5
All Species			21.20		2120.00		

** Density data not collected for species.

Table 2.3-5. Species encountered in the mature tree stratum of the Douglas-fir type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Pseudotsuga menziesii	100.00	100.00	100.00	100.00	10.45	100.00	1045.00	150.00	100.00	2.76
All Species					10.45		1045.00	150.00		2.76

Table 2.3-6. Species encountered in the shrub-seedling stratum of the Douglas-fir type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Amelanchier utahensis	53.55	23.95	18.52	32.01	49.23	100.00	4923.00	2083.33
Symphoricarpos oreophilus	19.45	45.79	18.52	27.92	17.88	100.00	1788.00	3983.33
Artemisia tridentata	0.73	2.30	11.11	4.71	0.67	60.00	67.00	200.00
Quercus gambelii	12.23	5.94	14.81	10.99	11.24	80.00	1124.00	516.67
Prunus virginiana	12.25	17.05	14.81	14.70	11.26	80.00	1126.00	1483.33
Chrysothamnus viscidiflorus	0.00	0.19	3.70	1.30	0.00	20.00	0.00	16.67
Pseudotsuga menziesii	0.98	2.49	14.81	6.09	0.90	80.00	90.00	216.67
Rosa woodsii	0.82	2.30	3.70	2.27	0.75	20.00	75.00	200.00
All Species					91.93		9193.00	8700.00

The Douglas-fir herbaceous stratum (Table 2.3-7) was composed of 15 different species contributing a total cover of 15%. A sedge, Carex geyeri was the dominant species contributing over 12% of the total herbaceous cover.

Mixed Brush - During the fall quarter, the mixed brush vegetation type was sampled with five permanent and four non-permanent transects. The shrub-tree seedling stratum was measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Two strata and 39 different species were identified for the mixed brush type during September, 1976 sampling: 9 species in the shrub-tree seedling stratum and 30 species in the herbaceous stratum.

The mixed brush vegetation type was sampled over an elevational range of 2189 to 2561 m (7180 to 8400 ft) where it occurs on soils ranging from shallow to moderately deep depending on the slope of the area sampled.

Nine shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-8) where they contributed a total cover of 36%. Amelanchier utahensis was the dominant shrub species contributing 14% of the total shrub cover.

The herbaceous stratum (Table 2.3-9) was comprised of 30 species which contributed a total cover of slightly over 8%. A sedge, Carex geyeri, was the dominant herbaceous species providing a relative cover of 34%.

Pinyon-Juniper - During the fall quarter, the pinyon-juniper vegetation type was sampled with seven permanent and eight non-permanent transects. Shrub-tree seedling and mature tree strata were measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Three strata and 42 different species were identified for the pinyon-juniper type during September, 1976 sampling: 2 species in the mature tree stratum; 15 species in the shrub-tree seedling stratum; and 25 species in the herbaceous stratum. Pinus edulis and Juniperus osteosperma occurred in both the mature tree and shrub-tree seedling strata.

The pinyon-juniper vegetation type was sampled over an elevational range of 1987 to 2262 m (6520 to 7420 ft) where it occurs primarily on shallow, well-drained soils derived from sandstone.

The mature tree stratum (Table 2.3-10) was comprised of 2 species, Pinus edulis and Juniperus osteosperma which contributed a total cover of 18% and a total density of 223 individuals per hectare. Juniperus osteosperma occurred at a greater density and frequency than Pinus edulis.

Table 2.3-7. Species encountered in the herbaceous stratum of the Douglas-fir type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Carex geyeri	79.08	32.76	12.10	95.00	1210.00	**	**
Achillea lanulosa	0.33	1.72	0.05	5.00	5.00	0.4	8.0
Mahonia repens	1.63	3.45	0.25	10.00	25.00	0.2	2.0
Astragalus tenellus	0.98	10.34	0.15	30.00	15.00	0.6	1.8
Galium boreale	0.33	6.90	0.05	20.00	5.00	0.5	2.5
Thalictrum fendleri	1.63	10.34	0.25	30.00	25.00	1.2	4.0
Stipa colombiana	0.33	1.72	0.05	5.00	5.00	**	**
Carex sp.	0.33	1.72	0.05	5.00	5.00	**	**
Pachystima myrsinites	9.80	10.34	1.50	30.00	150.00	1.6	5.3
Viola sp.	2.29	6.90	0.35	20.00	35.00	0.3	1.3
Thermopsis montana	0.00	1.72	0.00	5.00	0.00	0.1	1.0
Aster sp.	1.31	3.45	0.20	10.00	20.00	0.6	5.5
Vicia americana	1.31	5.17	0.20	15.00	20.00	0.2	1.0
Osmorhiza depauperata	0.33	1.72	0.05	5.00	5.00	0.1	1.0
Agropyron sp.	0.33	1.72	0.05	5.00	5.00	**	**
All Species			15.30		1530.00		

** Density data not collected for species.

Table 2.3-8. Species encountered in the shrub-seedling stratum of the mixed brush type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Pinus edulis	0.00	0.11	2.63	0.91	0.00	15.00	0.00	16.67
Artemisia tridentata	24.44	33.66	15.79	24.63	8.74	90.00	874.25	5275.00
Cercocarpus montanus	9.13	4.31	4.39	5.94	3.27	25.00	326.50	675.00
Chrysothamnus viscidiflorus	2.95	12.58	16.67	10.73	1.06	95.00	105.50	1970.83
Eurotia lanata	0.21	0.40	1.75	0.79	0.08	10.00	7.50	62.50
Purshia tridentata	6.94	5.88	10.53	7.78	2.48	60.00	248.25	920.83
Tetradymia canescens	0.54	5.18	13.16	6.29	0.19	75.00	19.25	812.50
Amelanchier utahensis	39.28	13.96	17.54	23.59	14.05	100.00	1405.25	2187.50
Symphoricarpos oreophilus	16.53	23.93	17.54	19.33	5.91	100.00	591.25	3750.00
All Species					35.78		3577.75	15670.83

Table 2.3-9. Species encountered in the herbaceous stratum of the mixed brush type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Oryzopsis hymenoides	3.80	5.48	0.32	16.00	32.00	**	**
Haplopappus nutallii	3.80	7.53	0.32	22.00	32.00	0.8	3.6
Clematis hirsutissima	0.24	0.68	0.02	2.00	2.00	0.0	1.0
Penstemon caespitosus	3.09	7.53	0.26	22.00	26.00	0.6	2.7
Agropyron trachycaulum	8.31	12.33	0.70	36.00	70.00	**	**
Linum lewisii	0.24	4.79	0.02	14.00	2.00	0.1	1.0
Erigeron pumilis	1.66	2.74	0.14	8.00	14.00	0.1	1.5
Eriogonum umbellatum	4.51	6.16	0.38	18.00	38.00	0.4	2.1
Physaria floribunda	0.00	1.37	0.00	4.00	0.00	0.1	1.5
Mahonia repens	2.85	4.11	0.24	12.00	24.00	0.3	2.5
Lithospermum ruderale	0.48	0.68	0.04	2.00	4.00	0.0	1.0
Butierrezia sarothrae	8.79	5.48	0.74	16.00	74.00	0.5	3.0
Phlox longifolia	0.00	1.37	0.00	4.00	0.00	0.0	1.0
Stipa comata	4.99	2.05	0.42	6.00	42.00	**	**
Poa sandbergii	12.35	8.22	1.04	24.00	104.00	**	**
Oenothera coronopifolia	0.71	2.05	0.06	6.00	6.00	0.1	1.3
Koeleria gracilis	1.90	2.05	0.16	6.00	16.00	**	**
Cryptantha sericea	0.00	4.79	0.00	14.00	0.00	0.2	1.4
Carex geyeri	33.73	6.85	2.84	20.00	284.00	**	**

Table 2.3-9 (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Galium boreale	0.00	1.37	0.00	4.00	0.00	0.1	2.5
Achillea lanulosa	0.00	0.68	0.00	2.00	0.00	0.0	1.0
Penstemon fremontii	0.00	0.68	0.00	2.00	0.00	0.0	1.0
Senecio multilobatus	0.24	1.37	0.02	4.00	2.00	0.1	1.5
Carex sp.	5.70	2.74	0.48	8.00	48.00	**	**
Comandra umbellata	0.95	2.05	0.08	6.00	8.00	0.4	6.7
Helianthella uniflora	0.24	0.68	0.02	2.00	2.00	0.0	1.0
Pachystima myrsinites	0.95	1.37	0.08	4.00	8.00	0.1	3.0
Heucherra sp.	0.24	1.37	0.02	4.00	2.00	0.0	1.0
Hedysarum boreale	0.24	0.68	0.02	2.00	2.00	0.0	1.0
Spahaeralcea coccinea	0.00	0.68	0.00	2.00	0.00	0.0	1.0
All Species			8.42		842.00		

** Density data not collected for species.

Table 2.3-10. Species encountered in the mature tree stratum of the pinyon-juniper type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)	Relative Basal Area	Basal Area (m^2/ha)
Juniperus osteosperma	55.90	65.42	69.39	63.57	10.15	85.00	1015.38	145.83	83.43	28.18
Pinus edulis	44.10	34.58	30.61	36.43	8.01	37.50	801.00	77.08	16.57	5.60
All Species					18.16		1816.38	222.92		33.78

Fifteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-11) where they contributed a total cover of 7%. Artemisia tridentata was the dominant shrub species contributing over 4% of the total shrub cover.

The herbaceous stratum (Table 2.3-12) was comprised of 25 species which contributed a total cover of only 5%. Two grasses, Agropyron trachycaulum and Poa sandbergii were the dominant herbaceous species providing a relative cover of over 54%.

Sagebrush - During the fall quarter, the sagebrush vegetation type was sampled with seven permanent and eight non-permanent transects. The shrub-tree seedling stratum was measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Two strata and 56 different species were identified for the sagebrush type during September, 1976 sampling: 16 species in the shrub-tree seedling stratum, and 40 species in the herbaceous stratum.

The sagebrush vegetation type was sampled over an elevational range of 1957 to 2600 m (6420 to 8530 ft) where it occurs on well-drained soils ranging from shallow to deep depending on the topography of the area sampled and on the origin (alluvial or sandstone-derived) of the soil.

Sixteen shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-13) where they contributed a total cover of over 25%. Artemisia tridentata was the dominant shrub species contributing almost 20% of the total shrub cover.

The herbaceous stratum (Table 2.3-14) was comprised of 40 species which contributed a total cover of 12%. A grass, Poa sandbergii, and a sedge, Carex geyeri, were the dominant herbaceous species together providing a relative cover of over 39%.

Greasewood - During the fall quarter, the greasewood vegetation type was sampled on three permanent transects. Greasewood was not sampled with non-permanent transects during September since all available greasewood stands have already been sampled. As discussed in the Second Annual Report (RBOSP 1976, page 3-7-41), greasewood is considered an association within the sagebrush type.

The greasewood vegetation association was sampled over an elevational range of 1905 to 2134 m (6250 to 7000 ft) where it occurs on deep, well-drained alluvial soils.

The herbaceous stratum on the three permanent transects (Table 2.3-15) was comprised of 6 species which contributed a total cover of 11%. The dominant herbaceous species were Chenopodium sp. and Kochia iranica, together providing a relative cover of over 68%.

Table 2.3-11. Species encountered in the shrub-seedling stratum of the pinyon-juniper type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Juniperus osteosperma	3.46	1.61	8.60	4.55	0.24	40.00	23.88	66.67
Pinus edulis	9.70	8.54	12.90	10.38	0.67	60.00	67.00	354.17
Artemisia tridentata	61.56	54.14	18.82	44.84	4.25	87.50	425.38	2245.83
Atriplex canescens	0.00	0.30	1.08	0.46	0.00	5.00	0.00	12.50
Atriplex confertifolia	0.56	2.61	2.69	1.95	0.04	12.50	3.88	108.33
Cercocarpus montanus	4.09	2.21	4.84	3.71	0.28	22.50	28.25	91.67
Chrysothamnus nauseosus	5.99	4.52	4.84	5.12	0.41	22.50	41.38	187.50
Chrysothamnus viscidiflorus	2.57	8.19	13.44	8.07	0.18	62.50	17.75	339.58
Eurotia lanata	0.20	3.06	1.61	1.63	0.01	7.50	1.38	127.08
Purshia tridentata	7.67	3.16	6.45	5.76	0.53	30.00	53.00	131.25
Sarcobatus vermiculatus	0.45	1.76	1.61	1.27	0.03	7.50	3.13	72.92
Tetradymia canescens	0.71	5.37	8.60	4.89	0.05	40.00	4.88	222.92
Amelanchier utahensis	2.21	1.05	3.76	2.34	0.15	17.50	15.25	43.75
Symphoricarpos oreophilus	0.00	0.05	0.54	0.20	0.00	2.50	0.00	2.08
Opuntia polyacantha	0.85	3.42	10.22	4.83	0.06	47.50	5.88	141.67
All Species					6.91		691.00	4147.92

Table 2.3-12. Species encountered in the herbaceous stratum of the pinyon-juniper type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Oryzopsis hymenoides	5.00	5.98	0.24	15.71	24.29	**	**
Eriogonum longhophyllum	3.24	4.89	0.16	12.86	15.71	0.2	1.8
Agropyron trachycaulum	32.65	22.28	1.59	58.57	158.57	**	**
Haplopappus nutallii	7.94	8.15	0.39	21.43	38.57	0.3	1.5
Euphorbia fendleri	2.35	4.89	0.11	12.86	11.43	0.3	2.1
Eriogonum umbellatum	1.47	1.09	0.07	2.86	7.14	0.0	1.5
Poa sandbergii	20.88	12.50	1.01	32.86	101.43	**	**
Erigeron pumilis	0.00	2.17	0.00	5.71	0.00	0.1	1.5
Gutierrezia sarothrae	0.29	0.54	0.01	1.43	1.43	0.0	2.0
Phlox hoodii	4.12	7.61	0.20	20.00	20.00	0.4	2.1
Koeleria gracilis	1.76	4.89	0.09	12.86	8.57	**	**
Cryptantha sericea	1.76	7.61	0.09	20.00	8.57	0.4	1.9
Sitanion longifolium	2.35	1.63	0.11	4.29	11.43	**	**
Sphaeralcea coccinea	1.76	2.17	0.09	5.71	8.57	0.5	9.0
Stipa comata	10.88	2.72	0.53	7.14	52.86	**	**
Astragalus spatulatus	0.00	1.09	0.00	2.86	0.00	0.0	1.0
Arenaria fendleri	0.00	1.63	0.00	4.29	0.00	0.1	1.7
Elymus cinereus	1.18	2.72	0.06	7.14	5.71	**	**
Ipomopsis aggregata	0.59	1.09	0.03	2.86	2.86	0.0	1.5
Chaenactis douglasii	0.29	0.54	0.01	1.43	1.43	0.0	1.0

Table 2.3-12 (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Astragalus purshii	0.00	0.54	0.00	1.43	0.00	0.0	2.0
Carex sp.	1.18	1.09	0.06	2.86	5.71	**	**
Penstemon caespitosus	0.29	1.09	0.01	2.86	1.43	0.0	1.5
Astragalus chamaeleuce	0.00	0.54	0.00	1.43	0.00	0.0	1.0
Phlox longifolia	0.00	0.54	0.00	1.43	0.00	0.1	4.0
All Species			4.86		485.71		

** Density data not collected for species.

Table 2.3-13. Species encountered in the shrub-seedling stratum of the sagebrush type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Juniperus osteosperma	0.00	0.28	5.03	1.77	0.00	22.50	0.00	37.50
Pinus edulis	0.61	0.56	6.70	2.62	0.15	30.00	15.00	75.00
Populus tremuloides	2.36	4.13	2.79	3.10	0.58	12.50	58.38	550.00
Atriplex nuttalli	0.00	0.31	1.12	0.48	0.00	5.00	0.00	41.67
Artemisia tridentata	82.70	52.71	22.35	52.59	20.42	100.00	2041.88	7018.75
Atriplex confertifolia	0.00	0.16	1.68	0.61	0.00	7.50	0.00	20.83
Chrysothamnus sp.	0.00	0.55	0.56	0.37	0.00	2.50	0.00	72.92
Chrysothamnus nauseosus	1.76	3.00	8.94	4.57	0.44	40.00	43.50	400.00
Chrysothamnus viscidiflorus	6.47	15.50	15.64	12.54	1.60	70.00	159.63	2064.58
Eurotia lanata	4.73	18.37	5.03	9.37	1.17	22.50	116.75	2445.83
Purshia tridentata	0.29	0.06	1.68	0.68	0.07	7.50	7.25	8.33
Sarcobatus vermiculatus	0.41	1.33	5.03	2.25	0.10	22.50	10.00	177.08
Tetradymia canescens	0.04	0.89	6.15	2.36	0.01	27.50	0.88	118.75
Amelanchier utahensis	0.00	0.20	4.47	1.56	0.00	20.00	0.00	27.08
Opuntia polyacantha	0.30	1.89	11.73	4.64	0.08	52.50	7.50	252.08
Ribes inerme	0.33	0.05	1.12	0.50	0.08	5.00	8.13	6.25
All Species					24.69		2468.88	13316.67

Table 2.3-14. Species encountered in the herbaceous stratum of the sagebrush type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Sitanion longifolium	2.02	3.14	0.24	10.00	24.29	**	**
Lepidium montanum	0.60	4.04	0.07	12.86	7.14	0.4	2.9
Chenopodium sp.	0.24	2.69	0.03	8.57	2.86	0.5	5.5
Agropyron trachycaulum	3.69	13.45	0.44	42.86	44.29	**	**
Elymus cinereus	6.07	2.69	0.73	8.57	72.86	**	**
Agropyron smithii	11.90	1.35	1.43	4.29	142.86	**	**
Phlox multiflora	11.31	1.79	1.36	5.71	135.71	0.1	1.8
Poa sandbergii	17.98	12.11	2.16	38.57	215.71	**	**
Penstemon caespitosus	1.79	2.24	0.21	7.14	21.43	0.2	2.4
Erigeron pumilis	0.12	4.48	0.01	14.29	1.43	0.3	2.2
Phlox longifolia	0.24	4.93	0.03	15.71	2.86	0.5	3.5
Ipomopsis aggregata	0.12	0.90	0.01	2.86	1.43	0.1	2.5
Oryzopsis hymenoides	0.95	2.69	0.11	8.57	11.43	**	**
Penstemon fremontii	0.60	1.35	0.07	4.29	7.14	0.0	1.0
Sphaeralcea coccinea	0.24	4.48	0.03	14.29	2.86	0.5	3.7
Koeleria gracilis	0.12	0.45	0.01	1.43	1.43	**	**
Carex sp.	3.21	2.24	0.39	7.14	38.57	**	**
Carex geyeri	21.07	2.69	2.53	8.57	252.86	**	**
Poa fendleriana	0.71	1.35	0.09	4.29	8.57	**	**
Aster sp.	0.71	1.35	0.09	4.29	8.57	0.2	4.3
Eriogonum umbellatum	1.79	2.69	0.21	8.57	21.43	0.2	1.8

Table 2.3-14 (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Galium boreale	3.21	3.14	0.39	10.00	38.57	1.2	12.0
Lupinus argenteus	1.55	2.24	0.19	7.14	18.57	0.1	1.6
Achillea lanulosa	0.12	1.35	0.01	4.29	1.43	0.1	2.3
Osmorhiza depauperata	0.24	0.45	0.03	1.43	2.86	0.0	3.0
Comandra umbellata	1.31	1.79	0.16	5.71	15.71	0.2	3.5
Geranium richardsonii	0.36	0.90	0.04	2.86	4.29	0.0	1.0
Stipa colombiana	3.10	1.35	0.37	4.29	37.14	**	**
Bromus marginatus	0.60	0.45	0.07	1.43	7.14	**	**
Vicia americana	0.00	0.45	0.00	1.43	0.00	0.0	1.0
Astragalus tenellus	0.36	0.90	0.04	2.86	4.29	0.1	2.5
Haplopappus nutallii	0.12	0.45	0.01	1.43	1.43	0.0	1.0
Phlox hoodii	1.55	3.14	0.19	10.00	18.57	0.2	2.4
Astragalus chamaeleuce	0.00	0.90	0.00	2.86	0.00	0.0	1.5
Eriogonum ovalifolium	0.12	0.45	0.01	1.43	1.43	0.0	1.0
Cryptantha sericea	0.48	3.14	0.06	10.00	5.71	0.1	1.4
Stipa comata	0.71	0.90	0.09	2.86	8.57	**	**
Penstemon sp.	0.12	0.45	0.01	1.43	1.43	0.0	2.0
Gutierrezia sarothrae	0.00	0.45	0.00	1.43	0.00	0.0	1.0
Chenopodium leptophyllum	0.60	4.03	0.07	12.86	7.14	0.6	5.0
All Species			12.00		1200.00		

** Density data not collected for species.

Table 2.3-15. Species encountered in the herbaceous stratum of the greasewood type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Chenopodium sp.	43.25	47.27	4.70	86.67	470.00	21.6	24.9
Sitanion longifolium	0.00	1.82	0.00	3.33	0.00	**	**
Elymus cinereus	0.31	3.64	0.03	6.67	3.33	**	**
Kochia iranica	24.23	14.55	2.63	26.67	263.33	21.8	81.8
Agropyron desertorum	16.56	14.55	1.80	26.67	180.00	**	**
Agropyron smithii	15.64	18.18	1.70	33.33	170.00	**	**
All Species			10.87		1086.67		

** Density data not collected for species.

Rabbitbrush - During the fall quarter, rabbitbrush was sampled on two permanent transects. No non-permanent transects were sampled in rabbitbrush in September 1976. As discussed in the Second Annual Report (RBOSP 1976, page 3.7-43), rabbitbrush is considered a seral stage in the bottomland sagebrush association. Few stands of rabbitbrush in the study area remain unsampled.

The rabbitbrush vegetation association was sampled over an elevational range of 2012 to 2073 m (6600 to 6800 ft) where it occurs on deep, well-drained alluvial soils.

The herbaceous stratum along the 2 permanent transects (Table 2.3-16) was comprised of 8 species which contributed a total cover of 26%. Elymus cinereus was the dominant herbaceous species providing a relative cover of 89%.

Bald (Upland Meadow) - During the fall quarter, the bald vegetation type was sampled with two permanent and three non-permanent transects. The shrub-tree seedling stratum was measured only on the non-permanent transects. Two strata and 30 different species were identified for the bald type during September 1976 sampling: 7 species in the shrub-tree seedling stratum and 23 species in the herbaceous stratum.

The bald vegetation type was sampled over an elevational range of 2256 to 2600 m(7750 to 8530 ft) where it occurs on shallow, well-drained soils derived from sandstone.

Seven shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-17) where they contributed a total cover of 3%. Tetradymia canescens was the dominant shrub species contributing over 2% of the total shrub cover.

The herbaceous stratum (Table 2.3-18) was comprised of 23 species which contributed a total cover of 17%. Poa sandbergii, Haplopappus acaulis, and Agropyron trachycaulum were the dominant herbaceous species providing a total cover of almost 7%.

Shadscale - During the fall quarter, the shadscale vegetation type was sampled with two permanent transects. Because of its limited distribution in the area, no non-permanent shadscale transects were sampled in September 1976.

The shadscale vegetation type was sampled over an elevational range of 2027 to 2076 m (6650 to 6810 ft) where it occurred on shallow soils derived from sandstone and platy siltstone outcrops.

The herbaceous stratum (Table 2.3-19) was comprised of 7 species which contributed a total cover of almost 4%. Artemisia frigida and Eriogonum lonchophyllum were the dominant herbaceous species, together providing a relative cover of 80%.

Table 2.3-16. Species encountered in the herbaceous stratum of the rabbitbrush type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Elymus cinereus	88.61	54.05	23.35	100.00	2335.00	**	**
Chenopodium leptophyllum	0.00	2.70	0.00	5.00	0.00	0.1	1.0
Artemisia frigida	0.76	2.70	0.20	5.00	20.00	0.1	2.0
Poa pratensis	5.88	18.92	1.55	35.00	155.00	**	**
Agropyron smithii	0.57	5.41	0.15	10.00	15.00	**	**
Distichlis stricta	3.80	8.11	1.00	15.00	100.00	**	**
Aster sp.	0.19	5.41	0.05	10.00	5.00	0.2	1.5
Juncus articus	0.19	2.70	0.05	5.00	5.00	**	**
All Species			26.35		2635.00		

** Density data not collected for species.

Table 2.3-17. Species encountered in the shrub-seedling stratum of the bald type during September 1976 for RBOSP.

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Artemisia tridentata	7.80	7.24	23.53	12.86	0.24	53.33	24.00	177.78
Chrysothamnus viscidiflorus	0.00	13.12	11.76	8.30	0.00	26.67	0.00	322.22
Eurotia lanata	3.58	48.87	26.47	26.30	0.11	60.00	11.00	1200.00
Tetradymia canescens	81.04	27.83	29.41	46.09	2.49	66.67	249.33	683.33
Amelanchier utahensis	0.00	0.23	2.94	1.06	0.00	6.67	0.00	5.56
Opuntia polyacantha	0.00	1.13	2.94	1.36	0.00	6.67	0.00	27.78
Ribes inerme	7.58	1.58	2.94	4.04	0.23	6.67	23.33	38.89
All Species					3.08		307.67	2455.56

Table 2.3-18. Species encountered in the herbaceous stratum of the bald type during September, 1976 for RBOSP.

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Agropyron trachycaulum	17.75	9.49	3.00	75.00	300.00	**	**
Poa sandbergii	19.53	12.03	3.30	95.00	330.00	**	**
Koeleria gracilis	2.66	2.53	0.45	20.00	45.00	**	**
Penstemon caespitosus	5.33	6.96	0.90	55.00	90.00	1.7	3.0
Artemisia frigida	0.89	5.06	0.15	40.00	15.00	0.6	1.4
Haplopappus nutallii	4.73	9.49	0.80	75.00	80.00	3.1	4.1
Hymenoxys acaulis	6.21	9.49	1.05	75.00	105.00	2.1	2.7
Eriogonum lonchophyllum	4.44	5.06	0.75	40.00	75.00	0.8	2.0
Astragalus spatulatus	7.69	9.49	1.30	75.00	130.00	2.4	3.2
Oryzopsis hymenoides	0.30	0.63	0.05	5.00	5.00	0.1	1.0
Artemisia dracunculus	1.48	1.90	0.25	15.00	25.00	0.3	2.0
Ipomopsis aggregata	0.30	1.90	0.05	15.00	5.00	0.3	1.7
Linum lewisii	0.30	0.63	0.05	5.00	5.00	0.1	2.0
Oxytropis lambertii	0.30	1.27	0.05	10.00	5.00	0.1	1.0
Gutierrezia sarothrae	2.37	2.53	0.40	20.00	40.00	0.5	2.3
Astragalus chamaeleuce	0.00	4.43	0.00	35.00	0.00	0.5	1.4
Haplopappus acaulis	20.41	5.70	3.45	45.00	345.00	1.3	2.8
Phlox hoodii	4.44	2.53	0.75	20.00	75.00	0.6	2.8
Arenaria fendleri	0.30	4.43	0.05	35.00	5.00	0.5	1.3
Physaria floribunda	0.00	2.53	0.00	20.00	0.00	0.3	1.3
Sphaeralcea coccinea	0.00	0.63	0.00	5.00	0.00	0.1	1.0

Table 2.3-18 (Continued)

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Comandra umbellata	0.59	0.63	0.10	5.00	10.00	0.3	6.0
Phlox longifolia	0.00	0.63	0.00	5.00	0.00	0.1	2.0
All Species			16.90		1690.00		

** Density data not collected for species.

Table 2.3-19. Species encountered in the herbaceous stratum of the shadscale type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Artemisia frigida	59.97	26.92	2.30	35.00	230.00	1.6	1.6
Oryzopsis hymenoides	3.85	15.38	0.15	20.00	15.00	**	**
Chenopodium sp.	0.00	7.69	0.00	10.00	0.00	0.5	4.5
Haplopappus nutallii	8.97	11.54	0.35	15.00	35.00	0.3	1.7
Eriogonum lonchophyllum	20.51	26.92	0.80	35.00	80.00	1.2	3.4
Sphaeralcea coccinea	2.56	7.69	0.10	10.00	10.00	0.4	4.0
Sitanion longifolium	5.13	3.85	0.20	5.00	20.00	**	**
All Species			3.90		390.00		

** Density data not collected for species.

Riparian - During the fall quarter, the riparian vegetation type was sampled with three permanent and two non-permanent transects. The shrub-tree seedling stratum, when present, was measured only on the non-permanent transects while herbaceous vegetation was surveyed only along the permanent transects. Two strata and 26 different species were identified for the riparian type during September 1976 sampling: 20 species in the herbaceous stratum and 6 species in the shrub-tree seedling stratum.

The riparian vegetation type was sampled over an elevational range of 1935 to 2195 m (6350 to 7200 ft) where it occurred on deep, well-drained alluvial soils.

Six shrub-tree seedling species comprised the shrub-tree seedling stratum (Table 2.3-20) where they contributed a total cover of 7%. Artemisia tridentata was the dominant shrub species contributing nearly 6% of the total shrub cover.

The herbaceous stratum (Table 2.3-21) was comprised of 20 species which contributed a total cover of 83%. Agropyron repens and Elymus cinereus were the dominant herbaceous species providing a relative cover of over 76%.

Literature Cited

RBOSP. 1976. Second Annual Report for the Terrestrial Data Accumulation Program. Rio Blanco Oil Shale Project. January 1976. 3 volumes.

Table 2.3-20. Species encountered in the shrub-seedling stratum of the riparian type during September, 1976 for RBOSP

Species	Relative Cover	Relative Density	Relative Frequency	Importance Value	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/ha)
Artemisia tridentata	85.54	77.83	31.25	64.87	5.77	100.00	577.00	4241.67
Chrysothamnus nauseosus	6.45	10.40	31.25	16.03	0.44	100.00	43.50	566.67
Chrysothamnus viscidiflorus	2.67	7.49	12.50	7.55	0.18	40.00	18.00	408.33
Sarcobatus vermiculatus	2.22	2.29	15.63	6.71	0.15	50.00	15.00	125.00
Amelanchier utahensis	0.00	0.15	3.13	1.09	0.00	10.00	0.00	8.33
Symphoricarpos oreophilus	3.11	1.83	6.25	3.73	0.21	20.00	21.00	100.00
All Species					6.75		674.50	5450.00

Table 2.3-21. Species encountered in the herbaceous stratum of the riparian type during September, 1976 for RBOSP

Species	Relative Cover	Relative Frequency	Percent Cover	Percent Frequency	Cover (m^2/ha)	Density (#/quadrat)	Sociability
Elymus cinereus	63.13	32.91	52.33	86.67	5233.33	**	**
Agropyron repens	13.03	11.39	10.80	30.00	1080.00	**	**
Chenopodium rubrum	0.40	1.27	0.33	3.33	33.33	0.2	7.0
Kochia iranica	0.32	3.80	0.27	10.00	26.67	0.2	2.0
Chenopodium sp.	0.92	3.80	0.77	10.00	76.67	1.4	14.3
Juncus articus	5.43	3.80	4.50	10.00	450.00	**	**
Carex sp.	4.02	3.80	3.33	10.00	333.33	**	**
Unknown	0.40	1.27	0.33	3.33	33.33	0.2	6.0
Hordeum jubatum	3.42	3.80	2.83	10.00	283.33	**	**
Chenopodium hybridum	0.84	6.33	0.70	16.67	70.00	1.0	5.8
Aster sp.	0.72	6.33	0.60	16.67	60.00	0.5	3.0
Cruciferae	0.16	2.53	0.13	6.67	13.33	0.1	1.5
Chorispora tenella	0.24	2.53	0.20	6.67	20.00	0.7	10.5
Poa pratensis	0.20	1.27	0.17	3.33	16.67	**	**
Distichlis stricta	0.40	1.27	0.33	3.33	33.33	**	**
Aster campestris	2.53	7.59	2.10	20.00	210.00	2.5	12.5
Plantago major	0.08	1.27	0.07	3.33	6.67	0.0	1.0
Ranunculus cymbalaria	1.13	2.53	0.93	6.67	93.33	1.5	23.0
Triglochin maritima	1.01	1.27	0.83	3.33	83.33	**	**
Carex nebraskensis	1.61	1.27	1.33	3.33	133.33	**	**
All Species			82.90		8920.00		

** Density data not collected for species.

2.3.1.5 Vegetation Raw Data

VEGETATION RAW DATA

83.C.2.2.1

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

Project 83

Sheet 1 of 3

Vegetation Type open Transect # 8 Type Non-[illegible]

T 15 R 10W S 33 1/4 1/4 S NE SW Transect Length 100 m.

Aspect (degrees) 100 Slope (degrees) 5 Elevation (feet) 9410

Field Analyst(s) Ellis + Reese Date 9/12/76

Site Description mature stand of some Pine trees in [illegible] QA Check Lind 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Potr		2	19	3	16	13	1	[illegible] mature
2 Psme		—	—	1	—	1	—	[illegible]
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Potr	0.0	3.4	4.4	20.0	0.0	2.0	3.3	7.2	Psme
	9.2	30.	11.6	20.0	2.0	8.5	5.3	10.0	9, 10, 11, 11, 10, 11,
	11.5	13.7	2.0	.5	15.3	19.1			13, 13, 10, 10, 12
									16, 13, 8, 12, 17
									15, 13, 11, 10,
									[illegible] 11 11,
									[illegible] 11, 11, 11.9 10, 9
									11, 11, 9, 10, 11, 10,
psme	6.05	8.85							9, 10, 11, 10,
									[illegible] 10, 10 10 10 11.9
									[illegible] 10, [illegible] 9,
									05: 10,
									[illegible] Q2: [illegible]
									[illegible] Q1: 12

096/060175

Aspect (degrees) _____ Project 83

Slope (degrees) 5 LINE-STRIP DATA SHEET

Elevation (feet) 8-100 83.C.2.2.1

Orientation (degrees) 180 SHRUB STRATUM Sheet 2 of 3

Vegetation Type aspen/ Transect # _____

T 15 R 100W S 32 ¼ ¼ S NE SW Transect Length 100 M

Field Analyst(s) Mike Reece Date 9-13-76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Sysp		2,7	40	93	105	110	95	93
2 Amal		2,7	300	24	10	12	14	6
3 Potr		2	100	15	17	7	17	22
4 Rowo		2	40	16	36	23	12	71
5 Acgl		2,7	200	—	—	1	—	—
6 Pema		—	75	—	—	2	—	2
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Syor	.5	.95	1.3	1.49	1.76	1.95	2.38	2.46	2.9	3.12	
	3.2	4.23	6.22	6.37	7.1	7.4	7.3	7.9	8.3	8.42	
	10.6	10.9	11.2	13.2	16.1	16.2	17.2	18.9	19.5	19.7	
	3.08	3.17	5.01	5.60	5.9	6.55	9.15	[illegible]	7.23	9.20	
	9.95	10.2	5.50	14.10	11.5	11.1	12.03	16.9[illegible]	19.2	19.55	
	19.75	20.6	.22	.26	.3	.62	1.45	2.61	4.3[illegible]	4.42	
	6.0	[illegible]	[illegible]	7.32	7.1	7.27	11.75	12.42	15.[illegible]7	19.62	
	18.45	19.50	.2	.52	.75	1.4	1.55	1.[illegible]	4.15	4.7	next page
Amal	4.34	4.92	5.1	5.34	9.3	9.45	9.45	9.72	10.10	10.2	
	13.2	13.63	14.1	14.6	15.4	15.[illegible]	17.8	18.[illegible]	1.7	1.82	
	2.47	[illegible]	3.1	3.22	[illegible]	3.[illegible]	16.7	[illegible]	4.75	[illegible]	
	9.25	10.55	10.7	10.9	2.0	3.0	3.4	4.25	4.8	8.6	
	9.3	[illegible]	12.2	13.2	1.2	1.4	2.0	9.3	17.4	18.0	
Rowo	9.43	[illegible]	14.05	14.2	16.9	17.2	18.9	19.0	19.1	19.25	
	2.96	[illegible]	4.91	5.30	6.58	7.0	7.[illegible]	[illegible]	8.[illegible]	[illegible]	
	10.[illegible]	6.[illegible]	19.[illegible]	[illegible]	[illegible]	[illegible]	10.3	[illegible]	18.2	18.1	
	1.1	1.[illegible]									

15-1000-32

LINE STRIP DATA SHEET
SHRUB, TREE SEEDLING STRATUM

830.2.2.1

Project 83
Sheet 3 of 3

Vegetation Type aspen Non-Permanent Transect # Date 8/13/83
from 8-13-76

Species	Intercepts (cm) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Potr	14.5	14.6	1.78	1.95	3.5+1.	4.12	4.20	4.05	11.45	11.65
	13.5	14.29	3.8	4.25	4.6	5.0	2.5	2.55	6.7	6.3
	12.3	15.3	19.2	19.5	2.5-	3.8	15.5	15.8	12.7	10.3
Prv.	.52	3.25	6.0	.6						
Acgl.	4.26	4.4								
Syor coll	6.1	6.35	7.2	7.8	7.5	10.3	11.6	12.6	12.7	14.35
	15.3	15.85	17.1	17.25	17.0	18.65	.7	1.6	1.4	1.6
	5.0	5.3	6.0	6.58	7.2	8.55	9.7	9.45	10.2	10.6
	10.9	11.3	11.7	12.0	12.6	12.73	12.9	13.1	14.1	14.4
	14.9	15.2	19.4	19.55						
Psme	14.2	14.4								

ECI
ecology consultants, inc.

pe (degrees) _____ HERBACEOUS STRATUM Sheet 1 of 1

vation (feet) 7 Subalpine June 1975 83.C.2.2.1

entation (degrees) _____

etation Type ASPEN Transect # A-3

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²

ld Analyst(s) Ellis + Reece Date 9/13/76 QA Check Lane 9-13-

Quadrat Number

cent Bare Area				1		2		3		4		5		6		7		8		9		10	
cies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Carex geyeri		2			5		T		4		15		10		2		30		15		25		3
Clematis sp (vine)		2		1	5	1	T																
Thalictrum fendleri		7		5	+			1	T														
Achillea lanulosa		2				1	1																
Bromus marginatus		2				1	T															5	3
Calamagrostis canadensis		2						1	T			4	T			3	1	2	T			3	2
Hydrophyllum capitatum		2								2	3	1	T	3	3			5	4	2	T		
Valeriana occidentalis		2								2	1	5	3	6	5								
Bromus marginatus		2									2		3		5		15				T		T
Osmorhiza depauperata		2																		1	T		

189/021176

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____
Vegetation Type Aspen

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Refer to June 75 data

Project 83.C.2.21
Sheet 1 of 1

Transect # A-1

T _____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis Date 9-11-76 QA Check Lum 9-13-76

Percent Bare Area

Species	Code #	Phen	Ht.(cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #
Hackelia floribunda		2		8	5			1	1											2	T	
Bromus marginatus		2			3		3		5				10								60	
Carex geyeri		2			4		5		40		8		10		5		1		5			
Galium boreale		7		4	1	4	1					3	1	3	1			2	1			
Geranium fremontii		7		1	2			1	4													
Thermopsis montana		2		3	1			3	4					1	2					1	1	
Aster sp.		5				1	T															
Lupinus caudatus		2,6					3															
Viola canadensis		2,7				1	1			2	3	4	5			8	6	10	8	3	T	5
Potentilla fendleri		2,7				3	1															3
Potentilla sp.		2										3	4									
Senecio sp. toothed leaves		2										1	1	6	20							
Orthilia secunda		2												1	1							
Pyrola asarifolia		2																		6	T	4

189/021176

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

83.C.222

Project 93
Sheet 1 of 3

getation Type Douglas fir Transect # 8 Type Nov Form
15 R 10W S 23 1/4 1/4 S NW NW Transect Length 150 m.
spect (degrees) 100 Slope (degrees) 40 Elevation (feet) 8400'
eld Analyst(s) Ellis Fiscus Date 9/10/76
te Description Hwy shoal on brush valley bottom QA Check Lum 9-13-76

ecies	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
Psme		—	1	3	1	2	2	normal,
								all annual
								quite old
								on most

ecies	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Psme	11.4	13	1.34	2.75	6.86	8.1	11.9	19.1	Q_1: 11
	17.4	19.3							Q_2: 13, 10, 9,
									Q_3: 17
									Q_4: 10, 10
									Q_5: 32, 11

6/060175

Slope (degrees) 30 LINE-STRIP DATA SHEET Project 83

Elevation (feet) 2400' 83.C.2.2.2

Orientation (degrees) 10 SHRUB STRATUM Sheet 2 of 3

Vegetation Type Douglas fir Transect #

T 15 R 10W S 28 ¼ ¼ S NW NW Transect Length 100 M

Field Analyst(s) Ellis, Reece Date 9-13-76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Amut		2.7	250	43	37	12	15	15
2 Sysc		2.7	50	56	35	35	45	68
3 Acgl		2.4	50	4	3	5	—	—
4 Sysc		2	200	3	8	15	5	—
5 Prvi		2.7	200	2	—	1	15	65
6 Chvi		4.5	30	1	—	—	—	—
7 Psme		—	300	3	1	2	7	—
8 Rowo		2.7	50	—	—	—	—	12.
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amut	.39	.41	1.15	1.6	2.5	2.8	2.45	2.9	4.4	9.95
	9.05	8.2	9.2	9.95	9.8	10.4	10.7	11.2	11.95	12.0
	13.1	13.55	13.6	13.95	14.51	14.65	15.45	15.50	16.35	18.1
	18.55	20	1.2	1.5	1.6	5.1	5.4	5.8	6.1	8.45
	8.7	8.95	16.05	20.0	1.0	2.91	3.52	5.6	5.95	6.10
	8.2	9.58	11.07	12.12	12.7	13.12	13.3	16.4	1.52	1.89
	2.82	20.0	.60	.70	8.0	10.65	14.2	15.5	16.2	16.5
	18.0	18.5								
Sysc	.97	1.25	1.99	2.1	2.3	2.45	3.7	4.5	7.7	8.9
	9.75	9.8	11.15	11.80	12.20	12.62	14.35	14.47	15.1	15.28
	11.0	16.15	17.2	18.52	1.0	1.2	2.15	2.4	2.5	2.8
	8.25	8.6	11.0	11.50	15.75	16.05	1.9	3.33	9.55	10.1
	13.2	15.0	16.5	16.95	19.1	19.1	1.51	1.62	11.2	12.55
	13.25	13.6								
Cagr	4.5	5.1	10.45	11.65	11.45	12.83	5.31	8.48	10.66	12.14
	12.45	13.9	13.02	14.0	17.05	17.35	17.5	17.65		

LINE STRIP DATA SHEET

1S 100W 28 NW¼ SHRUB, TREE SEEDLING STRATUM 83.C.2.2.2 Project [illegible]

Sheet 5 of [illegible]

Vegetation Type Douglas-fir Non-Permanent Transect # Date 21 JUN 76
June 13-76

Species	Intercepts (cm) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Psme	5.4	6.3								
Acgl	18.25	18.92								
Prvi	1.62	7.1	7.85	8.2	7.2	11.1	13.75	14.45	15.6	16.0
	17.62	18.35	17.3	20						
Rowo	19.2	19.95								

e (degrees) _____ HERBACEOUS STRATUM
ation (feet) _____ & Hopwell pre 1975 data
ntation (degrees) _____

Sheet 1 of 1

83.C.22.2

tation Type ~~Hem~~ Douglas fir Transect # D-1

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²

Analyst(s) Ellis + Reece Date 7/10/76 QA Check bm 9-13-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
ent Bare Area																					
ies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
arex geyeri		2			8		1		T		7		4		35		25		1		1		
chilla lanulosa		2		8	1																
rahonia repens		2		1	1																
stag. tenellus		2		3	1	2	1	1	T	1	T			1	T					3	1		
alium boreale		2				7	1			1	T												
halictrum fendleri		7												5	T					2	1		
tipa columbiana		2																			1		
arex sp.		2																	1				

189/021176

Slope (degrees) _____ Sheet 1 of 1

Elevation (feet) _____ HERBACEOUS STRATUM 83.C.2.2.2

Orientation (degrees) _____ refer to June 75 data

Vegetation Type Douglas-fir Transect # D-3

T _____ R _____ S 1 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis Date 9-11-76 QA Check June 9-13-76

Percent Bare Area

				Quadrat Number 1		2		3		4		5		6		7		8		9		10
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#
Carex geyeri		2			10		2		2		3		30		20		5		3		35	
Galium boreale		2		1	T																	1
Thalictrum fendleri		2,7		7	2									5	2	1	T			4	T	
Pachystima myrsinites		2		1	1	6	5	10	8	6	2					6	10			3	4	
Viola sp.		2		1	T	2	5											1	1	1	1	
Malosma repens		2						3	4													
Berberis montana		2								1	T											
Aster sp.		5												5	3							6
Vicia americana		2												1	1			1	3			1
Osmorhiza desmiperata		2																1	1			
Bromus marginatus		2																				

189/021176

ect (degrees) _____
pe (degrees) _____
vation (feet) _____
entation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

Reference June 1975 data

Project _____ Sheet 1 of 1

83.C.2.2.3

etation Type Shrub / Greasewood Transect # G-2

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m2

d Analyst(s) Ellis - Reese Date 9/9/76 QA Check Lum 9-13-76

cent Bare Area

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9		10	
cies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Chenopodium sp (perhaps)		5, 6		3	T	15	1	5	1	12	1	15	4	29	5	6	T	12	1	45	10	4	T
Atriplex longifolium		7																2	T				
Kochia americana		2																			T	1	

189/021176

Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____
Vegetation Type Greasewood

HERBACEOUS STRATUM
Refer to June 75 data

Sheet 1 of _____
83.C.2.2.3
Transect # G-3

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis Date 9-12-76 QA Check 9-13-76

Quadrat Number

				1		2		3		4		5		6		7		8		9		
Percent Bare Area																						
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#
Ochlia ivanica		4,5		230	30	110	20	44	5	60	8	130	8	8	2	2	T			70	6	
Chenopodium sp. (3 pointed seeds)		7,6				26	3	60	20	40	10			2	1			40	4	2	T	
Hyperon desertorum		7					2		T		5		1				10		6		10	
Salsola																						

189/021176

Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____
Vegetation Type Grassland

HERBACEOUS STRATUM
refer to June 75 data

Sheet 1 of 1
30223
Transect # G-4
Quadrat Size .5m²

_____ R _____ S _____ 1/4 1/4 S _____

Field Analyst(s) Ellis
Date 9-12-76
QA Check bm 9-13-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
G4-7 (DV) Cheno. sp. #1 (3 pointed seeds)		5,6		90	25	54	5	14	6	16	5	75	25	20	6	45	5			12	3	2	T
Grayia spinosa		2			20		T		5		3		4		6		3		1		1		8
Cheno. sp. #2		5,6																3	T				
G4-10 (perennial)																							

Slope (degrees) 5° LINE-STRIP DATA SHEET Project 83

Elevation (feet) 8450

Orientation (degrees) 210° SHRUB STRATUM Sheet 1 of 2

Vegetation Type Mixed Brush Transect # 27

T 2S R 100W S 28 ¼ ¼ S NENE Transect Length 100m

Field Analyst(s) Ellis Date 9-11-76 QA Check bm 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Cemo		2	60	26	—	—	—	—
2 Amut		7	140	7	7	2	20	10
3 Chvi		4	30	5	21	70	68	—
4 Artr		4	50	2	30	18	67	50
5 Teca		2	10	1	—	3	2	—
6 Syor		7	30	10	31	61	40	39
7 Pied		—	60	—	2	—	—	—
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Cemo	12.85	13.72	13.97	14.15						
Syor	15.91	18.60	5.15	6.10	11.03	11.08	11.40	12.35	1.50	1.55
	10.63	10.67	14.00	14.20	15.50	15.80	16.00	11.25	17.10	17.20
	2.90	3.00	3.57	3.75	3.90	5.10	5.50	6.05	6.70	8.80
Amut	14.40	14.70	16.90	20.00	0.00	3.80	10.12	10.30	16.60	18.00
	3.90	6.10	2.18	2.25	11.60	11.80	3.05	3.10	8.60	11.20
	11.70	12.25	13.60	16.70						
Chvi	15.42	15.50	10.25	10.50	10.95	11.05	14.18	14.23	14.60	14.75
	5.95	6.10	7.55	7.69	10.70	11.00	11.95	12.30	12.95	13.15
	13.35	13.48	16.25	16.32	17.30	17.45				
Artr	8.28	8.84	11.50	11.85	15.30	15.38	15.70	15.91	2.38	2.86
	13.20	13.96	7.50	7.58	7.80	8.30	8.76	9.05	14.40	14.60
Teca	15.80	16.00								

2S 100W 28

LINE STRIP DATA SHEET
SHRUB, TREE SEEDLING STRATUM

Project 83
Sheet 2 of 2

Vegetation Type Mixed Brush Non-Permanent Transect # 27 Date 9-11-76
Line 9-13-76

Species	Intercepts (cm)									
	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	16.35	16.56	16.90	17.00	19.00	19.15	0.00	0.55	1.82	2.08
	3.20	3.50	5.10	5.70	5.80	7.03	12.60	13.50	17.50	18.05
	19.55	19.90								
Syor	9.20	11.10	13.62	14.65	15.45	17.10	18.10	18.60	19.80	20.00

Slope (degrees) 12 — LINE-STRIP DATA SHEET — Project 85

Elevation (feet) 5[illegible]

Orientation (degrees) 45° — SHRUB STRATUM — Sheet 1 of 2

Vegetation Type Mixed Brush — Transect # ~~Plot~~ 28

T 15 R 100W S 35 ¼ ¼ S SENW — Transect Length 100 M

Field Analyst(s) Kestrel/Schiller — Date 9-9-76 — QA Check Lane 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		5	43	79	103	140	114	53
2 Amut		2	55	11	34	54	52	35
3 Putr		2	35	6	29	32	1	1
4 Chvi		5	21	38	38	16	21	4
5 Syor		2	18	9	55	86	138	8
6 Teca		2	28	4	5	2	1	10
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Amut	6.91	7.32	1.49	1.65	10.84	12.12	14.67	14.21	14.38	14.55	
	17.56	18.54	18.24	19.53	19.92	20.01	0.00	0.38	1.91	1.98	
	4.25	4.76	6.15	6.22	9.09	9.31	11.32	11.86	13.49	14.01	next page
Syor	10.70	10.72	17.36	17.41	19.73	19.83	0.47	0.64	0.93	1.04	
	1.43	1.55	1.66	1.74	12.31	12.34	12.63	12.76	12.79	13.00	
	13.11	13.16	16.98	17.06	19.23	19.41	19.84	19.82	8.39	8.73	next page
Artr	2.35	2.78	3.37	3.13	6.26	6.49	9.45	9.92	13.13	13.32	
	17.72	17.97	0.47	0.75	1.44	1.81	7.39	7.47	7.66	7.72	
	8.40	8.46	9.54	9.69	10.29	10.41	12.51	12.92	14.80	14.91	
	15.27	15.36	18.15	18.81	0.79	0.95	3.62	3.72	4.75	5.34	
	7.45	7.53	7.15	7.80	8.14	8.18	8.44	8.60	10.21	10.39	next page
Chvi	19.44	19.50	1.97	2.12	7.71	7.78	0.48	0.51	14.02	14.12	
Putr	5.45	5.59	5.68	6.30	6.51	6.62	7.07	7.16	10.77	11.00	
	11.10	11.78	16.39	16.59	0.12	0.14	0.25	0.60	6.90	7.38	
	8.61	8.78	10.98	11.96							

15 (1000) 58

LINE STRIP DATA SHEET
SHRUB, TREE SEEDLING STRATUM

Project 83
Sheet 2 of 2

Vegetation Type Mixed Brush Non-Permanent Transect # ~~MBT~~ 28 Date 9-9-76
Trans 9-13-76

Species	Intercepts (cm)									
	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amut	14.50	14.67	16.61	16.79	0.57	0.71	1.90	1.12	4.33	7.63
	8.56	8.91	9.01	9.34	11.13	11.29	12.12	12.61	14.50	14.59
	15.09	15.1-	19.66	20.00	0.00	0.91	6.49	6.63	12.57	12.78
Artr	14.70	14.79	14.94	15.24	15.63	15.82	9.97	10.34	12.78	13.69
	17.06	17.18	17.29	17.34	17.42	17.58	1.22	1.34	1.74	2.00
	4.38	4.44	5.07	5.22	7.05	7.41	9.18	9.28	12.90	12.99
	14.11	14.22	14.31	14.35	16.44	17.04	17.18	17.35	18.14	18.20
Syor	0.61	1.11	2.41	2.47						

ECI
ecology consultants, inc.

Slope (degrees) 5 LINE-STRIP DATA SHEET Project 83

Elevation (feet) 8100

Orientation (degrees) 127 SHRUB STRATUM Sheet 1 of 2

Vegetation Type Mixed Brush Transect # Mudflat 29

T 15 R 100W S 35 ¼ ¼ S NESW Transect Length 100m

Field Analyst(s) Kestrel-Schiller Date 9-9-76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		2,4	50	159	89	117	113	94
2 Amut		2	120	48	38	28	36	35
3 Putr		2	44	52	20	39	17	17
4 Teca		2	22	11	—	—	4	—
5 Syor		2	22	20	32	19	49	72
6 Chvi		2	26	31	5	7	15	11
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Artr	0.19	0.22	0.27	0.53	1.81	2.10	3.25	3.58	3.65	3.70	
	6.12	6.20	6.56	6.94	8.27	8.35	8.44	8.68	8.71	8.96	
	9.41	9.51	10.80	11.18	11.23	11.31	11.39	12.20	13.25	13.35	
	16.18	16.47	19.00	19.41	0.00	0.08	5.12	5.13	15.36	15.44	
	18.36	18.61	3.58	4.48	5.56	5.64	10.69	12.87	10.95	11.04	
	11.91	12.27	13.22	13.34	14.44	14.90	14.98	15.82	16.44	16.85	next page
	16.98	17.16	0.83	1.44	2.58	2.77	3.31	3.49	4.97	5.27	
Chvi	12.64	12.70	12.60	12.67	13.53	13.59	15.66	15.76			
Putr	0.91	1.15	1.35	1.53	2.02	2.12	2.70	2.96	3.06	3.16	
	3.64	3.71	4.16	4.86	16.67	16.82	1.34	1.58	1.65	1.94	
	3.12	3.47	3.91	4.56	4.59	4.85	4.96	5.10	7.14	7.23	
	8.29	8.60	6.34	6.51	7.07	7.25	7.30	7.32	7.56	7.90	next page
Amut	2.21	2.76	2.94	3.24	5.59	5.83	3.06	3.29	5.21	5.43	
	5.49	5.68	5.84	6.57	6.81	7.16	7.46	7.80	10.48	12.17	next page
Syor	1.49	1.62	13.01	13.29	14.51	14.70	14.84	14.93	12.85	12.94	
	13.63	13.86	15.84	15.90	16.21	16.42	11.28	11.54	4.57	4.98	next page
Teca	14.13	14.26	14.54	14.75	17.46	17.55					

IS 105 W S 35

LINE STRIP DATA SHEET 83 (82-2)

SHRUB, TREE SEEDLING STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Mixed Brush

Non-Permanent Transect # Hilltop 29

Date 9-9-76
Line 9-13-76

Species	Intercepts (cm)									
	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amut	13.61	14.09	17.17	19.72	4.54	4.86	5.77	5.98	11.54	12.02
	14.83	15.65	18.84	20.00	0.00	1.72	1.86	2.04	12.96	13.33
	14.41	14.50	14.57	14.60	14.71	14.84				
utr	8.63	8.94	9.96	10.47						
tr	6.53	7.07	10.39	10.91	14.02	14.39	14.62	14.71	15.64	15.90
	17.04	17.54	18.12	18.76	3.18	3.23	8.43	9.42	9.84	9.95
	14.52	14.83	14.98	15.51	17.29	17.63	18.78	19.01	19.16	19.74
	19.81	20.00								
yor	5.07	5.20	5.85	6.08	15.84	16.23				

Slope (degrees) 8 LINE-STRIP DATA SHEET 83C224 Project 83

Elevation (feet) 7400

Orientation (degrees) 61 SHRUB STRATUM Sheet 1 of 2

Vegetation Type Mixed Brush Transect # 83C 30

T 15 R 99W S 30 ¼ ¼ S SWSW Transect Length 100m

Field Analyst(s) Kestrel-Schiller Date 9-9-76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Cemo		2	125	56	53	25	2	—
2 Amut		2	59	7	20	38	14	29
3 Teca		2	19	11	55	21	56	9
4 Syor		2	25	36	33	62	39	61
5 Pied		—	160	1	1	—	—	—
6 Chvi		2	20	7	3	19	22	72
7 Putr		2	38	—	3	4	—	—
8 Artr		2,4	17	—	—	1	7	30
9 Eula		2	19	—	—	—	14	1
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Cemo	1.95	2.09	2.30	2.95	1.61	1.72	5.25	5.35	5.50	5.64	
	5.92	6.56	12.16	12.62	15.37	17.12	17.66	18.12	18.27	18.34	
	0.07	0.39	0.58	1.10	2.32	5.14	6.88	9.21	9.41	9.49	
	12.73	13.64	14.27	14.36	15.16	15.22	1.83	2.19			
Putr	0.59	0.88									
Eula	6.97	7.06	7.59	7.80							
Chvi	2.04	2.22	14.40	14.87	8.98	9.05	9.21	9.30	13.89	13.95	
	13.61	13.66	13.70	14.01	15.18	15.35	19.51	19.63			
Syor	15.91	16.24	12.78	13.03	13.16	14.36	15.48	15.74	0.67	1.21	
	1.46	1.94	13.67	13.82							
Amut	0.48	0.64	1.03	1.12	14.23	14.45	15.58	15.82	15.95	18.54	
	19.04	20.00	0.00	0.29	0.39	0.50	7.81	7.93	8.77	8.91	next page
	9.00	9.25	9.45	9.80	12.74	16.08	17.22	17.44	19.56	20.00	
Teca	13.93	14.07									
Artr	18.56	18.69	19.06	19.32	16.45	16.87					

1S 9W 30

LINE STRIP DATA SHEET 83.c.2.24
SHRUB, TREE SEEDLING STRATUM

Project 83
Sheet 2 of 2

Vegetation Type Mixed Brush Non-Permanent Transect # [illegible] 30 Date 9-9-76
Lum 9-13-76

Species	Intercepts (cm) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Amut	0.00	1.36	1.68	1.89	2.08	2.22				

ECI
ecology consultants, inc.

QUADRAT DATA SHEET 25m x 2m Project

HERBACEOUS STRATUM Sheet 1 of 1

Vegetation Type Mixed Brush Transect # 1

Sec June '75 R — S — ¼ ¼ S — Quadrat Size .5m²

Field Analyst(s) Ellis, Kester Date 9/8/76 QA Check Brow 9-13-

heavily grazed

Quadrat Number

Percent Bare Area / Species	Code #	Phen	Ht. (cm)	1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #
Syzop hymen		2		-	1															-	6	
Apple nuttal		7		1	1																	1 T
Clematis hirsut		7		1	1																	
Chrysth caespit		2		1	T	1	T			2	1			4	1			8	1	4	5	5
Gra trachycaulum		2				-	3	-	1	-	4	-	1			-	1			-	2	-
Linum lewisii		2				1	T			1	T			1	T	1	T					1
Erigeron pumilis		2				2	T											1	T			
Orig umbel		2				1	T															
Rosaria floribunda		2				1	T															2
Mahonia repens		2						1	T													
Lithospermum ruderale		7						1	2													
Achil. sarath		4								1	1	1	T	1	T					1	1	1
Phlox longifol.		2								1	T											
Stipa comata		2										-	3	-	3							-
Poa sandber		2										-	T			-	2	-	3			
Agroth coronop		2												1	T			1	1	2	2	
Koel gracilis		2														-	3	-	4			
Elymus sericea		2																3	T	1	T	1

189/021176

ope (degrees)_____
evation (feet)_____
ientation (degrees)_____

HERBACEOUS STRATUM
above June 1975 data

83.C.2.2.4

getation Type mixed brush

Transect # M-7

_____ R_____ S_____ 1/4 1/4 S_____

Quadrat Size .5m²

d Analyst(s) Ellis & Reece

Date 8/3/78

QA Check Lum 9-13-78

Quadrat Number

				1		2		3		4		5		6		7		8		9		10	
rcent Bare Area																							
ecies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
carex geyeri		2			10		15		20		?		20		30		4		2		35		
eriogonum umbellatum		2		1	T																		
galium boreale		7								3	T			2	T								
achillea lanulosa		2												1	T								
maianthemum racemosum		2														1	1						
penstemon fruticosus		7																1	T				

189/021176

ct (degrees) _____ QUADRAT DATA SHEET Project _____

ce (degrees) _____ HERBACEOUS STRATUM Sheet 1 of _____

vation (feet) _____ 83.c.2.2.4

ntation (degrees) _____ reformat. June 1975 data

etation Type mixed brush 7 Transect # M-9

_____ R _____ S 1 1/4 1/4 S _____ Quadrat Size .5m²

ld Analyst(s) Ellis + Reece Date 9/10/76 QA Check bum 9-13

Quadrat Number

cent Bare Area				1		2		3		4		5		6		7		8		9		10	
cies	Code #	Phen	Ht.(cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
applopappus nuttalii		2		7	4	1	1	2	1	1	2	12	2	3	4	2	1	T	2	T		1	
rhizopsis hymenoides		2					T																
num lewisii		6				1	1																
utierezia sarothrae		4				1	T																
lahonia repens		2						5	4									1	1	2	1		
enecio multilobatus		2						1	T	2	1												
nstemon caespitosus		2										2	T	2	1								

Aspect (degrees)
Slope (degrees)
Elevation (feet)
Orientation (degrees)
Vegetation Type Mixed Brush

HERBACEOUS STRATUM
refer to June '75 data

Sheet 1 of 1
S3.C.2.2.4
Transect # M-3
Quadrat Size .5m²

R S 1/4 1/4 S
Field Analyst(s) Ellis
Date 9-11-76
QA Check Lum 9-13-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Carex sp.		2			5				3		6		10										
Agropyron trachycaulum		2							T				T		2		1				1		
Potentilla repens		2						5	5														
Erigeron pumilus		2											1 T										
Eriogonum umbellatum		2											1 3										
Spiraea umbellata		2											2 T		5 2								13
Penstemon caespitosus		2													1 2								
Hyptantha sericea		2													1 T								
Poa sandbergii		2													T								
Oryzopsis hymenoides		2																	3		1		
Peliganthella uniflora		7																					1
Phlox longifolia		7																					1

189/021176

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
Subalpine June 1975 data

Project _____
Sheet _____ of _____

83.C.2.2.4

Vegetation Type Mixed Brush Transect # M-2

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²

Field Analyst(s) Ellis + Evans Date 9/7/76 QA Check Evans 9-10-76

Percent Bare Area

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#
Eriogonum umbellatum		2		2	5	2	T			3	4	3	2			2	4					4
Eriophyllum myrsinites		2		4	3	2	1															
Hyp. trachy.		2			2				10		1						1		T		T	
Poa sandbergii		2			4		3				10		4		6		8		12			
~~Lomatium~~ Heuchera sp.		7		1	1			1	T													
Koeleria gracilis		2							1													
Hedysarum boreale		2						1	1													
Erigeron pumilus		7						2	7													
Crepis hymenoides		2									1						1					
Gutierrezia sarothrae		4								4	6											
Cryptantha sericea		2								1	T	2	T			1	T					
Linum lewisii		2								1	T											
Sphaer. coccinea		2														1	T					

139/021176

(1)

LINE-STRIP DATA SHEET
MATURE TREE STRATUM 83C.2.2.5

Project 83

Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect # 45 Type non perm

25 R 98W S 7 1/4 1/4 S NWSE Transect Length 100 m

Aspect (degrees) 3 Slope (degrees) 8 Elevation (feet) 6850

Field Analyst(s) Schiller, Kestrel Date 9/10/76

Site Description nice mature stand, surveying trees QA Check Sum 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied		—	4	3	3	5	3	normal
2 Juos		—	4	4	1	4	1	" "
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	8.10	8.54	16.76	20.00	5.31	10.05		Q1	38, 22, 11, 13;
	0.00	3.75	8.62	11.70				Q2	20, 34, 21;
								Q3	25, 21, 22;
								Q4	25, 22, 20, 25, 28;
								Q5	12, 13, 16.
Juos	9.13	11.44	3.27	7.06				Q1	33, 14, 22, 5?;
								Q2	11, 12, 22, 7.5;
								Q3	34;
								Q4	9, 18, [16, 19, 18, 8], 24;
								Q5	53.

096/060175

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

83.C.2.2.5

Project 83

Sheet 1 of 2

Vegetation Type PJ Transect # 44 Type Non-perm

T 15 R 98W S 19 1/4 1/4 S SE/SE Transect Length 100m

Aspect (degrees) 160 Slope (degrees) 2 Elevation (feet) 6550

Field Analyst(s) Ellis Date 9-12-76

Site Description very old stand primarily Juos little repro. QA Check Lum 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
Juos		—	1	3	2	4	1	

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Juos	6.90	8.25	1.85	3.45	18.85	20.00		Q1	32
	5.90	7.95	15.20	16.51				Q2	60, 77, 72
								Q3	57, 27
								Q4	65, 50, 92, 68
								Q5	55

Slope (degrees) 2

Elevation (feet) 6550

Orientation (degrees) 130

LINE-STRIP DATA SHEET 83C.22.5 — SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type P-J

Transect # ~~4~~ 5

T 15 R 98W S 19 ¼ ¼ S SE/SE Transect Length 100m

Field Analyst(s) Ellis Date 9-12-76 QA Check Sum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Chvi		4	20	4	—	—	—	1
Artr		4	70	2	35	44	39	12
Jugs		—	70	2	3	—	—	—
Eula		2	20	—	1	—	—	—

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	7.38	7.70	7.85	7.92	8.30	8.39	8.50	9.70	10.00	10.56
	12.30	12.65	1.26	1.41	3.00	3.14	5.48	5.78	8.53	8.92
	9.30	10.57	13.80	14.45	10.87	10.90	13.60	14.15	15.20	15.63
	15.92	16.42	16.60	16.82	17.40	17.56	17.90	18.22	18.45	18.65

186/021176

Slope (degrees) 8 LINE-STRIP DATA SHEET 83 C.2.2.5 Project 83

Elevation (feet) 6550

Orientation (degrees) 68 SHRUB STRATUM Sheet 2 of 2

Vegetation Type Pinyon Juniper Transect # ~~2761~~ 45

T 25 R 92W S 7 ¼ ¼ S NWSE Transect Length 100 m

Field Analyst(s) Kestrel/Schiller Date 9/10/76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Pied		—	75	7	2	2	—	3
2 Juos		—	50	1	—	1	—	—
3 Opco		2	12	5	4	1	4	—
4 Botr		2	36	2	1	2	1	—
5 Chvi		2	23	—	—	1	—	—
6 Futr		2	43	—	—	—	—	4
7								
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Futr	3.48	4.02								

186/021176

(6)

LINE-STRIP DATA SHEET
MATURE TREE STRATUM 83.C.2.2.5 Project 83

46 Sheet 1 of 2

Vegetation Type P-J Transect # [illegible] Type Non-Perm

T 25 R 99W S 23 1/4 1/4 S NWSW Transect Length 100m

Aspect (degrees) 330° Slope (degrees) 8° Elevation (feet) 7100

Field Analyst(s) Kestrel-Schiller Date 9-10-76

Site Description mature PJ stand with many young trees, good amount of topsoil & litter QA Check Sum 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
Pied		—	0	0	3	0	2	normal
Juos		—	1	2	2	3	2	normal

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	16.64	20.00	0.00	3.36	1.38	2.29	5.50	11.41	P_1 - 0
									P_2 - 0
									P_3 - 12, 8, 11
									P_4 - 0
									P_5 - 18, 29
Juos	5.20	12.21	6.61	10.06	10.55	15.61	13.88	20.00	Q_1 - 100
	0.00	2.31	2.37	4.46	12.50	14.34			Q_2 - 37, 46
									Q_3 - (40, 50), 38
									Q_4 - 35, 67, 120,
									Q_5 - 25, 26,

096/060175

lope (degrees) 8° LINE-STRIP DATA SHEET 83 C.2.2.5 Project 83

levation (feet) 7100'

rientation (degrees) 26° SHRUB STRATUM Sheet 2 of 2

egetation Type Pinyon Juniper Transect # ~~7~~ 46

25 R 99W S 23 ¼ ¼ S NW/SW Transect Length 100m

ield Analyst(s) Schiller Kestrel Date 9/10/76 QA Check Lmw 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Pied		–	10	14	16	33	9	19
Jvos		–	9	1	1	–	–	–
Artr		5	68	44	46	12	22	6
Chvi		2	20	22	1	–	1	3
Oppo		2	7	3	1	–	2	1
Amut		2	71	1	11	–	–	–
Putr		2	44	–	10	4	–	3
Cemo		2	80	–	–	1	–	1

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Chvi	9.86	9.91	10.44	10.56	14.55	14.59				
Artr	10.89	11.09	13.63	13.80	17.46	18.11	19.15	19.26	19.69	19.99
	3.12	3.25	6.30	6.66	7.81	7.88	8.21	8.43	11.18	11.57
	16.14	16.30	2.48	2.77	3.80	3.82				
Pied	1.89	2.38	1.59	3.08	6.34	6.59	8.91	10.06		
Putr	9.38	10.00	17.80	18.15	18.34	18.42	18.50	18.57	19.78	19.81
Cemo	16.56	16.57								

(b)

LINE-STRIP DATA SHEET
MATURE TREE STRATUM 83C.225 47 Project 83
Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect # 83C.225 47 Type Non-perm
T 25 R 98W S 19 1/4 1/4 S NE/NW Transect Length 100m
Aspect (degrees) 160 Slope (degrees) 38° Elevation (feet) 6800'
Field Analyst(s) Restrel / Schiller Date 9/10/76
Site Description mature stand with few young trees QA Check Lum 9-13-76
very little top soil - mostly steep

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied		—	2	0	1	1	0	normal
2 Juos		—	1	0	2	0	0	normal
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	3.72	5.06	9.68	15.71	6.07	8.84			Q_1 - 53, 29 Q_2 - 0 Q_3 - 36 Q_4 - 4 4 1 Q_5 - 0
Juos	3.99	4.73	14.14	18.19					Q_1 - 73 Q_2 - 0 Q_3 - 44 37 Q_4 - 0 Q_5 - 0

096/060175

Aspect (degrees) NW
Slope (degrees) 38°
Elevation (feet) 6500'
Orientation (degrees) 6°

LINE-STRIP DATA SHEET

83C.2.2.5

SHRUB STRATUM

Project 83

Sheet 2 of 2

Vegetation Type Pinyon Juniper

Transect # 9/11/24 47

25 R 95W S 19 ¼ ¼ S NE/NW Transect Length 100m

Field Analyst(s) Kestrel, Schiller Date 9/10/76 QA Check Sum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Ceco		2	53	4	21	10	—	—
Amut		2	27	1	2	—	—	—
Prid		—	8	2	2	5	—	1
Teca		2	16	5	1	14	—	9
Atco		2	21	1	—	12	32	1
Chvi		4	31	—	2	—	4	—
Artr		5	54	—	—	2	35	37
Jbos		—	66	—	—	5	—	—
Atca		2	53	—	—	2	—	4
Eula		2	15	—	—	—	55	5
Oppo		2	10	—	—	—	—	3
Plju		2	20	—	—	—	—	1

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Ceco	6.51	6.52	6.60	6.61	10.84	11.21	2.38	2.49	2.59	3.19
	5.56	6.06	6.33	6.52	10.05	10.18	10.42	10.45		
Atco	13.36	14.67								
Amut	11.35	15.60								
Artr	0.93	1.26	11.45	11.85	17.95	17.08	19.19	20.00	0.00	0.07
	2.02	2.57	3.86	4.38	4.63	6.07	6.44	6.59		
Teca	2.32	2.47	10.45	10.52						
Eula	11.38	11.45	11.76	11.78	11.90	11.92				

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

83.C.2.2.5

48

Project 83

Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect 83.C.2.2.5 Type non-perm

15 R 98 W S 32 1/4 1/4 S NE/NE Transect Length 100 m

Aspect (degrees) 23 Slope (degrees) 11 Elevation (feet) 6500'

Field Analyst(s) Schilling, Kestrel Date 9/10/76

Site Description Pure Juos stand, drainage bottom QA Check Tom 9-13-76

taking over.

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
Juos		—	0	2	0	2	2	

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Juos	6.34	8.43	15.93	19.86	17.27	20.20		Q1	0
								Q2	52, 31
								Q3	0
								Q4	95, 28
								Q5	48, 78

096/060175

Aspect (degrees) ____
Slope (degrees) 11
Elevation (feet) 6500'
Orientation (degrees) NW

LINE-STRIP DATA SHEET

SHRUB STRATUM

83C.2.2.5

Project 83

Sheet 2 of 2

Vegetation Type Pinyon Juniper

Transect # Hill 48

T 15 R 98W S 32 ¼ ¼ S NE/NE

Transect Length 100m

Field Analyst(s) Kestrel/Schiller

Date 9/10/76

QA Check Lynn 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Chvi		5	27	14	16	9	8	10
Chna		5	44	16	6	—	21	22
Artr		2	51	49	78	79	57	69
Ceco		2	8	7	4	11	4	7
Tiri		—	47	—	3	1	—	2
Teca		2	19	—	1	—	7	8
Save		2	68	—	—	28	—	—
Atco		2	31	—	—	6	—	—
Artr (small sc 7/13/76)		5	20	—	—	—	20	26
Pied		—	63	—	—	—	—	1

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Chvi	.08	.19	.25	.27	1.83	1.89	5.80	5.99		
Artr	1.69	1.75	2.03	2.12	5.06	5.16	5.26	5.37	12.6	12.39
	19.95	20.00	0.66	0.78	2.55	2.74	4.33	4.67	7.48	7.58
	10.51	10.70	10.91	11.07	11.52	11.72	12.53	12.62	12.87	12.99
	15.89	15.97	1.96	2.59	7.24	7.39	7.74	8.00	13.02	13.12
	13.60	13.68	15.16	15.75	1.93	2.27	10.83	11.08	14.63	14.83
	19.00	19.10	2.03	2.15	3.67	3.89	6.76	7.13	7.38	7.47
	12.30	12.48	12.99	13.19	13.55	13.70	13.79	13.95	17.45	17.51
Chna	8.09	8.28	8.41	8.55	13.72	13.77	13.89	14.21	0.49	0.57
	8.73	8.84	8.93	9.08	6.62	7.75				
Ppro	15.39	15.41	15.48	15.45	13.67	13.71	3.37	3.42		
Save	8.95	8.98								
Artr sml	11.18	11.25								

LINE-STRIP DATA SHEET
MATURE TREE STRATUM 83.C.22.5 Project 83

Orientation (degrees) 100 Sheet 1 of 2

Vegetation Type P-J Transect # 49 Type Non-perm

15 R 98W S 18 1/4 1/4 S SW/SW Transect Length 100m

Aspect (degrees) 340 Slope (degrees) 8 Elevation (feet) 6520

Field Analyst(s) Ellis Date 9-12-76

Site Description scattered trees across flat between slopes w/ mixture of old + young trees QA Check bum 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Juos		—	1	1	2	0	2	
2								
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Juos	10.50	11.10	10.32	10.70	0.00	3.70		Q1	23
								Q2	[15,15,11,24]
								Q3	15,14
								Q4	0
								Q5	18,13

096/060175

Aspect (degrees) 340
Slope (degrees) 8
Elevation (feet) 6530
Orientation (degrees) 100

LINE-STRIP DATA SHEET

SHRUB STRATUM

83.e.2.2.5

Project 83

Sheet 2 of 2

Vegetation Type P-J

Transect # 49

1S R 98W S 18 ¼ ¼ S SW/SW Transect Length 100m

Field Analyst(s) Ellis Date 9-12-76 QA Check Lmw 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Chna		6	50	6	1	—	13	4
Putr		2	45	8	2	10	—	—
Pied		—	100	1	1	1	—	—
Teca		2	15	5	—	12	17	8
Juos		—	50	—	2	2	1	—
Chvi		5	30	—	1	12	—	2
Artr		4	40	—	1	17	10	32
Cemo		2	10	—	—	1	—	—
Oppo		2	15	—	—	—	1	—

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Chna	0.00	0.12	2.33	2.55	2.68	2.76	11.50	11.73	12.37	12.45
	9.50	9.70								
Artr	16.50	17.10	17.55	18.25						
Juos	5.53	6.68	7.89	8.06	2.12	2.26	19.25	19.76		
Putr	9.93	10.02	10.70	11.00	18.30	18.85	15.90	15.98	16.44	16.50
	0.26	0.40	0.60	0.70	1.09	1.44	5.25	5.70	6.85	6.97
	7.13	7.29	10.80	11.00						
Pied	2.12	2.26								
Teca	8.84	9.01								
Oppo	17.68	17.94								

LINE-STRIP DATA SHEET
MATURE TREE STRATUM

83 C.2.2.5

Project 83

Orientation (degrees) 106° 50

Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect # 1/10 Type [illegible]

23 R 99 W S 11 1/4 1/4 S NW/SE Transect Length 100 m

Aspect (degrees) 148° Slope (degrees) 5° Elevation (feet) 7200'

Field Analyst(s) Karen Reese Date 9/11/76

Site Description [illegible] predominantly shale. QA Check Lum 9-13-76

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Juos		—	2	1	2	1	1	[illegible]
2 Pied		—	1	1	1	4	3	[illegible]
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Juos	10.52	13.01	5.34	5.67	0.79	2.01	3.66	4.72	Q 90, 12
	10.61	12.05							Q 69
									Q 8, 11
									Q 75
									Q 65
Pied	15.92	17.00	0.00	2.21	2.81	9.75	14.81	20.00	P 50
	0.00	1.36	3.09	6.42					P 26
									P 18
									P 50 (40, 52), 12, 12
									P (35, 48) 30, 10

096/060175

pect (degrees) 270
ope (degrees) 16°
evation (feet) 6300'
ientation (degrees) 5°

LINE-STRIP DATA SHEET

83.C.2.2.5

SHRUB STRATUM

Project 83

Sheet 2 of 2

getation Type Pinus Juniper

Transect # Pinus, 51

15 R 98W S 31 ¼ ¼ S SE/SE

Transect Length 100m

eld Analyst(s) Kodrl

Date 9/11/76

QA Check Lum 9-13-76

ecies	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Artr		2	70	48	41	95	85	7
Chvi		2	31	21	9	9	2	5
Teca		2	18	5	1	3	6	5
Pira		—	82	3	1	2	—	—
Opu		2	13	5	—	3	1	—
Symp		2	20	1	—	—	—	—
Sage		2	100	—	—	2	5	—
Juos		—	90	—	—	4	2	—
Chna		5	48	—	—	—	1	—

Intercepts (m)

ecies	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	0.26	1.69	16.74	17.12	19.62	19.85	2.78	2.95	3.27	3.33
	4.32	4.63	6.75	6.76	7.22	7.28	8.06	8.20	15.63	15.64
	17.08	17.45	18.96	19.99	2.33	2.37	2.50	2.53	3.69	3.70
	5.03	5.48	6.01	6.35	6.98	7.03	7.35	7.42	7.72	7.89
	11.24	11.86	15.45	15.51						
Vi	1.76	1.81	3.94	4.12	12.18	12.30	12.43	12.44	17.53	17.75
	11.79	11.84								
Ave	5.57	5.68	10.08	10.09						
Chna	15.42	18.51	15.50	15.96						

Slope (degrees) 8° LINE-STRIP DATA SHEET Project 83

Elevation (feet) 7200' SHRUB STRATUM 83C.2.2.5 Sheet 2 of 2

Orientation (degrees) 104°

Vegetation Type Pinus Juniper Transect # NRALM 50

T 2S R 9W S 16 ¼ ¼ S NW/SE Transect Length 100 m

Field Analyst(s) [illegible] Date 7/11/71 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		23	80	55	10	—	2	1
2 Pied		—	30	10	14	15	6	—
3 Amut		2	15	2	2	2	—	—
4 Cemo		2	100	2	—	1	3	—
5 Putr		2	40	—	4	5	1	11
6 Oppo		2	10	—	1	—	—	—
7 Chvi		2	25	—	1	—	3	2
8 Juos		—	10	—	1	—	—	—
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	0.74	1.59	3.24	3.56	3.99	4.76	5.20	5.39		
	18.38	18.84	19.36	19.54						
Chvi	13.08	13.52								
Pied	11.51	13.23	4.76	4.88						
Putr	14.2	14.90	17.45	17.48	15.25	15.32	15.40	15.92		

186/021176

HERBACEOUS STRATUM

Sheet 1 of 1

Vegetation Type Pinyon Juniper

Transect # P-4

T ____ R ____ S ____ ¼ ¼ S ____ Quadrat Size .5 m²

Field Analyst(s) Ellis, Kestrel

Date 9/8/76

QA Check 9-13-76

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #
Percent Bare Area																						
Oryzop hymenoides		2		-	1	-	1															
Eriog lancho.		7		2	2					1	T	1	T	1	2	5	4	1	T			
Agro tracycaulum		2						-	8	-	8					-	1	-	3	-	6	-
Haplo. nuttallii		7						1	1							1	3			1	1	4
Euphorb. fendleri		2						1	1							1	T	1	1			3

189/021176

ect (degrees)_____
pe (degrees)_____
vation (feet)_____
lentation (degrees)_____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

Nf. Jun 75 calc

Sheet 1 of 1

83.c 2.a.5

getation Type P-5 → Transect # P-1

_____ R_____ S_____ 1/4 1/4 S_____ Quadrat Size a 5 m 2

d Analyst(s) Ellis + Reece Date 9/9/76 QA Check Lum 9-13-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
rcent Bare Area																					
ecies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agropyron trachy		2			T		4		4		T		T				4						1
Eriogonum umbellatum		2				2	1	1	4														
Poa ~~ambig~~ sandbergii		2							4														
Erigeron pumilus		7						2	T														
Gutierreza sarothrae		4						2	1														
Phlox hoodii		7						2	1	1	1												
Oryzopsis hymenoides		2							+		1							1					
Koeleri gracilis		2									1												
Cryptantha sericea		2								1	T									3	1	2	1
Sitanion longifolium		7																			4		3
Malvastrum coccinea		2																		8	1		

1.10/021176

ect (degrees) _____ QUADRAT DATA SHEET Sheet 1 of 1

pe (degrees) _____ HERBACEOUS STRATUM

vation (feet) _____ 5 ref. just 15 data 83 C.2.2.5

entation (degrees) _____

getation Type PJ / 9/10 Transect # P-2

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m 2

eld Analyst(s) Ellis & Reece Date 9/10/76 QA Check Lum 9-13-76

Quadrat Number

			1		2		3		4		5		6		7		8		9		10	
rcent Bare Area																						
ecies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agrop. trachycaulum		2			4		2		T		5		3		15		T		3		1		
Aplopappus nuttallii		2		2	2	1	T					3	4										
Poa sandbergii		2			T		1		10		2		1						5		7		
Koeleria gracilis		2			T				T		T		2						T				
Stipa comata		2			2		4				6		5										
Phlox hoodii		8				4	1					2	1					5	2	2	1	3	
Cryptantha sericea		2				1	T											3	1	2	1		
Oryzopsis hymenoides		2							T					2	1								
Astrag. spatulatus		2						1	T			1	T										
Erigeron pumilis		2								1	T					2	T						
Arenaria fendleri		2										2	T	1	T								
Sitanion longifolia		2,6																		1			

1-20/021176

QUADRAT DATA SHEET — HERBACEOUS STRATUM — Sheet 1 of 1

Prefume 15 x 75 mm

etation Type P-J — Transect # P-3

R 1 S ____ ¼ ¼ S ____ — Quadrat Size .5m 2

ld Analyst(s) [illegible] Date 9/9/76 — QA Check bmw 9-13-76

cent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Lymus cinereus		2			T						T						1		2				1
Arenaria fendleri		2				2	T																
Leptosiphon aggregata		2				2	T	1	2														
Haplopappus nuttallii		2				1	1	1	1	2	T									1	T		
Euphorbia fendleri		2						2	1							2	1	1	1	2	T		
Chaenactis douglasii		2								1	1												
Eriogonum lonchophyllum		2								1	1	1	T							3	2		
Astragalus purshii		2								2	T												
Oryzopsis hymenoides		2,6																			1		
Phlox hoodii		2																		1	T		

189/021176

Aspect (degrees)
Slope (degrees)
Elevation (feet)
Orientation (degrees)

HERBACEOUS STRATUM
Aspen Juv 1975 data

Sheet 1 of
83 C.225

Vegetation Type P-J

Transect # P-15

T R S 1/4 1/4 S Quadrat Size .5m²

Field Analyst(s) Ellis Date 9/15/76 QA Check Sum 9-13-7

Percent Bare Area

				Quadrat Number 1		2		3		4		5		6		7		8		9		10
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#
[illegible] tracky.		2			1				T				1		T							
hope [illegible] cattili		2		1	3					1	2											
poa sandbergii		2							T								10				6	
orezopsis cymenoides		2									4		1									
euphorbia fendleri		2								6	3											
carex sp.		2													2							

189/021176

QUADRAT DATA SHEET [illegible] Project [illegible]

HERBACEOUS STRATUM reference June 15 data Sheet 1 of 1

Vegetation Type PJ 1986 Transect # PJ-5

[illegible] R [illegible] S 4 ¼ ¼ S [illegible] Quadrat Size .5m²

Field Analyst(s) ELB Date 9/7/96 QA Check burn 9-13

Quadrat Number

Species.	Code #	Phen	Ht. (cm)	1		2		3		4		5		6		7		8		9		10	
Percent Bare Area				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
agropyron trachycaulum		2			4		T		T								T		T		T		
~~trachy caftrum~~ cautum		~~2~~																					
poa sandbergii		2			1		3										4						
phlox hoodii		8		1	T			1	T			2	1			2	2			1	T		
koeleria gracilis		2			±		1										1						
haplo pappus nuttallii		2				1	T	1	T														
penstemon caespitosus		2						2	T							1	1						
sphaeralcea coccinea		2										4	T										
cryptantha sericea		2										1	T	3	1	4	T					1	

189/021176

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

refer to June 75 data

Sheet 1 of 1

83.C.2.2.5

Vegetation Type P-J Transect # P-13

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5 m²

Field Analyst(s) Ellis Date 9-11-76 QA Check Lum 9-1[illegible]

Percent Bare Area

Quadrat Number

Species	Code #	Phen	Ht. (cm)	1		2		3		4		5		6		7		8		9		10	
				#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agropyron trachycaulum		2			3		3		T		1				T		T		1				
Aq. Saundbergii		2							1		T		T		1				3		2		
Sphaeralcea coccinea		2						12	3					12	2								
Cryptantha sericea		2						2	1			1	T			2	T	1	T				
Astragalus chamaeleuce		2						1	T														
Phlox hoodii		2						2	1														
Carex sp.		2							2														
Oryzopsis hymenoides		2											4										
Phlox longifolia		7										4	T										
Erigeron pumilus		2																1	T				

189/021176

Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

HERBACEOUS STRATUM
Spring 1975 data
rabbitbrush

Sheet 1 of 1
83.C.2.26

Vegetation Type R-B-I-1 Transect # B-2

T _____ R _____ S 1 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis + Reese Date 9/9/76 QA Check Sum 9-13-76

heavily grazed

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
elymus sinereus		2			10		45		70		40		60		30		5		3		50		35
poa pratensis		2			15		3				2		1		3		4				3		
agropyron smithii		2					3														T		
distichlics spicata		2													4		6		10				
aster sp. (purple flower)		2														2	1			1	T		
juncus articus		2																	1				

189/021176

Slope (degrees) 3 HERBACEOUS STRATUM Sheet 1 of
Elevation (feet) 9 3 (Herbaceous June '75 data) 83.0 2.2.7
Orientation (degrees) 9 5
Vegetation Type RIPARIAN Transect # R-3
R S 1/4 1/4 S Quadrat Size .5m²
Field Analyst(s) Ellis + Peace Date 9/9/76 QA Check Lum 9-13

Quadrat Number

Species	Code #	Then	Ht. (cm)	1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	#
Ely. cinereus		6			50		90		75		5		15		75				2		50	
Poro. repens		5,6							4		60		95		5		50		95		5	
Chenopod. sp (3 pointed succ)		5,6								7	10											
Kochia Iranica		5										2	3									
Chenopod. sp. (clam shell)		4,5														3	2					
Juncus articus		6																				
Carex saximontanus		2																				

189/021176

lope (degrees) 10 LINE-STRIP DATA SHEET Project 83

levation (feet) 6200' 83C.2.2.7

rientation (degrees) 46 SHRUB STRATUM Sheet 1 of 1

egetation Type Ponderosa Transect # 15

25 R 9W S 14 ¼ ¼ S SW/NW Transect Length 100m

ld Analyst(s) K. Hall Reece Date 9/11/76 QA Check Gw 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Arc		2	150	33	109	121	93	48
Cle		5	75	1	8	7	6	7
Sym		2	38	—	—	1	4	2

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Arc	19.35	19.37	2.5	4.75	7.35	7.50	7.80	8.0	9.20	10.90
	11.10	11.75	12.90	13.00	13.80	13.90	14.45	14.75	15.05	15.60
	.20	.70	1.05	1.55	4.0	4.2	4.55	[illegible]	4.85	5.65
	[illegible]	.15	[illegible]	[illegible]	19.11	20.00	4.35	4.80	[illegible]	[illegible]
	7.25	7.42	.6	1.2	1.55	1.80	2.25	[illegible]		
Sove	7.10	7.30	[illegible]	7.95						

Aspect (degrees) 40
Slope (degrees) 60
Elevation (feet) 6323
Orientation (degrees) 10

LINE-STRIP DATA SHEET

SHRUB STRATUM

83.C.2.2.7

Project 83

Sheet 1 of 1

Vegetation Type Riparian (Artr has been sprayed) Transect # 19

15 R 99W S 4 ¼ ¼ S SE/NE Transect Length 100m

Field Analyst(s) Ellis Date 9-12-76 QA Check [illegible] 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Chna		4,5	90	8	7	9	7	7
Chvi		4,5	50	13	19	2	—	15
Artr		4	100	20	7	8	5	15
Amut		2	200	—	1	—	—	—
Save		5	75	—	—	5	3	—
Syor		2	35	—	—	—	3	9

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
hna	1.45	2.45	8.38	8.75	11.35	11.45	3.70	3.85	12.22	12.29
	12.42	12.50								
vi	1.75	1.88	14.70	14.84	17.46	17.55				
rtr	11.52	11.82	13.58	13.94						
yor	17.89	17.94	19.20	19.28	16.37	16.64				

Slope (degrees) _____
Elevation (feet) 6620
Orientation (degrees) 220°

LINE-STRIP DATA SHEET

SHRUB STRATUM

P3 C.2.2.8

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # ~~8~~ 42

T 25 R 99W S 4 ¼ ¼ S SE/NW

Transect Length 100m

Field Analyst(s) Schiller, Kestrel

Date 9/10/76

QA Check tum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		2,5	78	97	86	91	97	102
2 Save		5,6	54	41	—	—	—	—
3 Opfr		2	7	2	15	3	6	7
4 Chna		2	44	1	4	17	27	3
5 Eula		2	13	—	7	62	4	1
6 Chvi		2	15	—	16	27	8	9
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	[illegible]	1.13	1.49	1.56	1.76	1.82	2.17	3.71	4.30	4.33
	4.50	5.19	5.46	5.52	12.16	12.25	12.49	12.53	14.41	15.33
	[illegible]	[illegible]	4.01	4.29	4.24	4.60	7.09	7.41	7.58	7.97
	9.41	10.50	17.57	19.96	0.96	1.07	2.20	2.55	4.45	4.47
	4.83	5.00	5.97	5.98	7.34	7.80	8.45	8.79	9.96	10.25
	10.43	10.94	11.76	12.39	15.55	15.85	16.94	17.31	1.41	1.96
	13.20	14.20	15.12	15.50	16.08	16.21	16.77	16.88	17.04	17.14
	17.37	17.56	0.45	1.69	2.31	2.57	4.25	4.58	4.87	4.90
	5.94	6.00	7.72	7.95	9.02	9.04	11.03	11.24	11.98	11.30
	12.53	12.58	14.09	14.94	15.72	16.11	16.53	16.65		
Chna	19.44	19.72	3.40	3.41	16.73	16.78	19.86	18.93		
Chvi	11.12	11.16	13.31	13.35	17.50	17.92	19.81	19.83	9.38	9.40
	19.35	18.57								
Opfr	12.48	12.82	16.93	17.00	17.47	17.58				
Eula	1.86	1.93	3.38	3.46	6.68	6.70	13.70	13.79		

186/021176

Aspect (degrees) 2[illegible]
Slope (degrees) 7
Elevation (feet) 6800
Orientation (degrees) [illegible]

LINE-STRIP DATA SHEET

SHRUB STRUTUM

83.C.2.2.8

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # ~~B49~~ 43

25 R 9W S 7 ¼ ¼ S NW SE

Transect Length 100 m.

Field Analyst(s) Schiller / Kestrel

Date 9/10/76

QA Check Jun 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Artr		2	70	137	99	92	87	44
Guss		—	86	1	3	3	4	2
Tepo		2	12	3	3	25	6	—
Putr		2	33	1	—	—	—	2
Chna		4	64	—	16	25	23	20
Chvi		2	24	—	1	—	—	7
Pief		small pinecones	200	—	1	3	4	3 (1 mate...

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Putr	0.90	1.48								
Artr	8.52	8.59	8.87	8.98	10.56	10.85	11.09	11.34	12.72	13.26
	16.25	16.32	17.30	17.64	19.63	19.81	0.00	1.09	5.31	5.64
	8.90	8.97	9.18	9.38	12.18	12.23	13.00	13.42	13.70	13.77
	14.44	14.53	17.76	17.89	19.59	19.83	0.80	1.27	1.53	1.62
	7.78	8.00	10.41	10.59	11.06	11.19	11.27	11.33	11.61	11.67
	12.98	13.10	13.27	13.58	13.92	14.10	14.53	14.66	14.85	15.03
	15.12	15.47	16.33	16.60	19.12	20.00	0.00	0.52	0.87	1.08
	1.24	1.47	3.38	4.40	5.11	5.47	6.80	6.95	10.11	10.53
	10.59	10.77	11.11	11.28	11.55	11.97	11.86	12.16	15.87	16.12
	13.32	13.55	17.51	17.90	18.08	18.19				
Chna	17.07	17.24	19.64	20.00	0.00	0.12				

Elevation (feet) 6750

Orientation (degrees) 121°

LINE STRIP DATA SHEET

SHRUB STRATUM 83 C.2.2.8

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # ~~BLM~~ 44

T 25 R 98W S 19 ¼ ¼ S SW/NW Transect Length 100m

Field Analyst(s) Schiller, Kestrel Date 9/10/76 QA Check Lund 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		4	125	39	99	152	63	54
2 Eula		2,5	25	382	199	151	366	—
3 Atco		2	48	4	—	—	—	—
4 Ivos		—	64	1	—	1	—	—
5 Opdo		2	9	—	1	—	—	—
6 Chvi		3,4	90	—	—	—	—	12
7 Chvi		2	32	—	—	—	—	1
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	
Artr	1.05	1.21	15.89	16.01	3.23	3.97	6.38	7.14	10.06	10.11	
	10.21	10.86	11.72	12.10	12.21	13.95	16.29	17.20	17.67	18.08	
	18.21	20.00	0.00	0.32	1.04	1.36	4.06	4.69	5.07	5.34	
	5.52	6.40	9.30	9.52	11.76	11.84	14.74	15.10	15.41	16.69	
	16.96	17.69	19.10	20.00	0.00	0.62	1.72	2.23	3.60	4.04	
	4.68	5.02	5.96	6.16	7.51	7.57	7.88	8.59	8.98	9.59	
	10.73	11.11	12.21	13.29	13.60	14.46	15.22	15.30	15.71	16.83	
	17.00	18.50	18.23	19.06	19.43	20.00	0.00	0.16	1.84	2.68	
	3.67	4.11	4.69	4.73	4.85	6.12	9.71	9.85	10.22	11.08	16.64 17.14
Eula	0.99	1.31	1.76	1.98	2.96	2.97	3.20	3.33	3.72	3.88	
	5.66	5.67	8.11	8.23	8.32	8.49	9.48	9.56	13.49	13.56	
	13.96	14.03	14.20	14.30	17.41	17.50	19.08	19.20	19.51	19.62	
	0.72	0.93	1.26	1.31	4.05	4.21	4.83	4.99	8.91	9.27	
	8.49	8.69	11.25	11.29	14.71	14.79	1.63	1.65	1.94	1.24	
	1.34	1.49	3.12	3.17	3.33	3.45	3.54	3.76	3.88	4.04	
	5.19	5.29	5.66	5.90	7.30	7.41	8.99	9.02	9.56	9.71	
	11.02	11.21	12.47	12.58	14.70	14.76	17.61	17.78	18.90	19.21	
	19.10	19.13	19.42	19.58	0.16	0.34	0.51	0.92	1.32	1.53	
	6.04	6.35	7.30	7.50	10.00	10.19	11.09	11.34	11.92	12.35	
	13.33	13.42	14.08	14.49	19.75	20.00					

8607021176 13.34 13.92 16.33 16.46

Slope (degrees) 5°
Elevation (feet) 8500
Orientation (degrees) 45°

LINE-STRIP DATA SHEET

SHRUB STRATUM 83.c.2.2.8

Project 83

Sheet 1 of 2

Vegetation Type Sagebrush

Transect # 45

T 25 R 100W S 27 ¼ ¼ S SESE Transect Length 100 m

Field Analyst(s) Ellis Date 9-11-76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		2,4,5	80	82	92	119	138	148
2 Syor		7	30	77	73	65	32	17
3 Chvi		3,4	30	56	15	55	103	47
4 Riin		2	60	1	2	—	—	—
5 Amut		7	90	—	—	1	—	1
6 Teca		2	25	—	—	—	2	—
7								
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	0.00	0.28	0.67	0.81	0.93	1.22	1.72	1.83	1.96	2.00
	2.40	2.52	3.43	3.52	3.83	3.99	4.18	4.80	7.35	7.60
	7.75	9.50	13.41	14.20	14.96	15.10	15.31	15.80	16.00	17.40
	19.35	20.00	0.00	0.30	1.58	1.76	2.65	3.00	4.20	6.25
	6.50	6.70	6.90	7.20	7.83	8.40	8.55	10.10	10.40	11.70
	12.00	13.80	14.20	15.10	15.50	16.40	16.80	17.40	18.90	19.10
	19.30	20.00	0.30	0.40	0.55	0.70	0.75	1.25	1.35	1.60
	1.69	1.91	2.25	2.45	3.30	4.10	4.95	5.35	5.50	5.91
Riin	3.30	3.95								
Syor	3.84	3.93	4.89	4.94	6.60	6.72	7.10	7.15	10.60	10.65
	11.00	11.20	11.40	11.60	12.10	12.15	14.93	15.01	15.80	15.90
	17.75	18.20	18.40	18.90	0.78	0.92	1.80	1.88	2.10	2.37
	3.00	3.11	8.42	8.53	14.30	14.45	0.15	0.28	4.25	4.40
Chvi	5.90	5.97	6.75	6.80	9.90	10.10	13.15	13.35	4.20	4.30
	6.78	6.93	7.90	8.10	8.75	8.83	13.00	13.17		
Teca	9.34	9.35								

25 100W 27 SESE

SHRUB, TREE SEEDLING STRATUM

83 C.2.2.1

Project 83

Sheet 2 of 2

Vegetation Type Sagebrush

Non-Permanent Transect #

Date 9-11-76

Trans 9-13-76

Species	Intercepts (cm)									
	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	6.30	6.62	6.95	7.10	7.35	8.50	8.70	9.30	9.50	10.22
	[illegible]	[illegible]	10.55	11.15	12.30	12.80	13.90	14.20	14.80	15.00
	15.22	17.10	17.35	20.00	0.22	0.58	0.80	2.30	5.10	5.81
	8.25	8.71	9.85	9.87	10.30	10.75	11.00	11.10	11.50	12.00
	12.60	12.90	13.20	14.05	14.50	15.60	16.20	16.70	17.23	17.50
	18.01	18.25	0.00	1.30	2.47	2.54	4.47	5.03	5.59	5.98
	6.87	7.53	6.13	6.20	8.96	9.01	9.39	9.98	10.75	11.50
	12.02	13.30	13.85	14.81	15.00	16.60	17.50	18.00	18.60	19.00
	19.50	19.70								
Syor	4.60	4.80	9.20	9.35	10.05	10.22	10.50	10.69	12.00	12.15
	17.05	17.15	19.50	19.65	2.75	3.08				
Chvi										

Slope (degrees) 2
Elevation (feet) 6520
Orientation (degrees) 20

LINE-STRIP DATA SHEET

SHRUB STRATUM

83 C.228

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush

Transect # 46

T 15 R 98W S 18 ¼ ¼ S SW/SW Transect Length 100 m

Field Analyst(s) Ellis Date 9-12-76 QA Check Sum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		4	60	100	71	60	110	74
2 Save		2	50	1	3	20	26	26
3 Oppo		2	15	2	4	2	6	—
4 Eula		6	25	—	2	—	—	—
5 Atnu		2	10	—	—	—	1	19
6 Chvi		4,5	10	—	—	—	—	1
7								
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	1.07	1.64	3.91	3.30	6.16	6.37	9.12	9.60	11.10	11.50
	12.65	12.75	14.42	14.62	14.85	15.10	19.50	20.00	0.00	0.32
	5.50	6.00	6.90	7.02	10.00	10.40	10.95	11.03	12.20	12.73
	15.50	15.70	17.20	17.47	6.28	6.65	10.17	10.78	12.09	12.92
	14.65	14.86	19.34	19.70	0.45	1.22	3.06	3.56	3.63	4.27
	5.16	5.46	5.52	5.62	5.79	6.00	6.10	6.26	7.24	7.51
	8.82	9.30	9.95	10.07	11.30	11.72	12.20	12.33	12.60	13.20
	13.35	13.55	13.75	13.85	15.45	15.52	16.68	16.82	19.33	19.78
	0.00	0.05	3.49	3.57	3.63	3.78	4.32	4.54	5.50	6.65
	11.59	11.73	13.31	13.35	14.02	15.09	15.30	15.74	16.00	16.60
	16.92	17.05	17.40	17.70	18.25	18.40	19.00	19.15	19.30	19.60
Eula	1.82	1.92	2.16	2.21						
Save	13.98	14.13	17.55	18.20						
Oppo	18.40	18.42								

186/021176

Slope (degrees) 10° | LINE-STRIP DATA SHEET | Project 83

Elevation (feet) 7220' | SHRUB STRATUM | 33 C.228

Orientation (degrees) 310° | Sheet 1 of 1

Vegetation Type Sagebrush | Transect # TT 47

T 25 R 99W S 10 ¼ ¼ S SW/SW | Transect Length 100 ft.

Field Analyst(s) Renee Koetzel | Date 9/4/76 | QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		2.5	55	72	84	89	79	51
2 Chv		5	35	58	39	67	46	27
3 Amut		2	45	2	1	1	—	2
4 Pied		—	40	1	5	1	5	5
5 Teca		2	25	3	5	6	2	2
6 Putr		2	25	—	—	—	1	—
7 Opdo		2	10	—	—	—	—	1
8 Chrysothamnus sp		5	10	—	—	—	—	35
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	0.0	.10	.5	.65	2.12	2.48	4.10	4.30	6.10	6.20
	6.60	6.75	8.54	9.0	12.60	12.81	14.18	14.48	15.25	15.84
	1.70	2.50	6.20	6.31	8.95	9.40	9.78	10.05	10.95	11.10
	12.55	12.70	14.60	14.65	15.0	15.55	16.56	17.30	17.50	18.0
	18.85	18.95	3.60	4.18	4.85	5.25	5.52	6.08	7.30	7.72
	9.60	10.42	10.93	11.32	12.95	13.0	14.1	14.3	17.18	17.30
	17.59	18.28	.54	.58	3.12	3.28	9.50	10.05	11.34	11.75
	13.30	13.90	1.74	2.35	3.30	3.92	4.70	4.95	6.85	7.25
	11.50	12.0	12.48	12.8	17.05	17.12	18.06	18.23		
Chv.	8.28	8.30	8.0	1.10	10.05	10.25	7.93	8.03	12.90	13.0
	15.77	16.05	1.40	1.50						
Pied	7.76	8.20								

Aspect (degrees) 280
Slope (degrees) 30°
Elevation (feet) 6400'
Orientation (degrees) 1820

LINE-STRIP DATA SHEET

SHRUB STRATUM 83.C.2.2.8

Project 83

Sheet 1 of 1

Vegetation Type Sagebrush Transect # EWH 48

T 15 R 98W S 32 ¼ ¼ S NE/NW Transect Length 100m

Field Analyst(s) Reece, Kestrel Date 9/11/76 QA Check Lund 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Artr		2	50	56	29	23	33	40
Chna		5	40	7	9	10	5	12
Chvi		2	20	28	31	19	28	28
Teca		2,6	15	14	17	1	3	2
Oppo		2	10	12	7	5	1	—
Save		2	60	2	2	—	—	1
Atco		2	35	—	3	—	—	3

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Chvi	0.11	0.14	2.54	2.78	18.16	18.31	3.54	3.56	3.69	3.73
	8.88	9.33	13.78	13.86	13.93	14.01	18.43	18.70	9.08	9.39
	11.36	11.41	11.62	11.84	16.38	16.45				
Chna	11.69	12.06	12.19	12.35	12.54	12.76	16.16	16.32	16.39	16.81
	9.19	9.73								
Artr	3.64	3.18	3.45	4.64	5.78	5.79	6.00	6.07	6.40	6.46
	9.15	9.29	9.61	9.95	16.10	16.72	17.02	17.17	18.22	18.25
	18.70	18.77	19.18	19.35	1.66	1.69	3.57	3.59	15.28	15.58
	17.14	17.30	19.18	19.50	19.58	19.60	0.00	0.04	0.56	0.95
	1.61	1.78	2.50	2.71	3.11	3.40	3.73	3.82	18.05	18.06
	18.15	18.45	19.40	19.64	19.78	19.88	19.92	19.93		
Teca	9.67	9.73								
Oppo	18.27	18.53								

186/021176

Slope (degrees) 5°
Elevation (feet) 7100'
Orientation (degrees) 70°

LINE-STRIP DATA SHEET — SHRUB STRATUM — 83C22.8

Project 83
Sheet 1 of 1

Vegetation Type Sagebrush
Transect # BLM-49
T 2S R 99W S 16 ¼ ¼ S NE/SE
Transect Length 100 m
Field Analyst(s) Koch & Keeco
Date 9/11/76
QA Check Sum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
Chri		2	25	43	22	18	73	84
Arir		2	50	93	115	100	84	93
Juos		—	40	2	1	—	—	—
Pied		—	15	1	4	—	3	—
Amut		2	60	—	1	4	—	—
Oppo		2	10	—	1	—	—	9
Chra		2	30	—	—	—	1	—

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Arir	1.02	1.35	1.42	1.62	3.15	3.20	7.32	[illegible]	7.72	7.80
	8.35	8.60	9.38	10.05	10.75	10.90	11.00	11.40	11.85	11.90
	15.15	15.25	15.40	16.20	17.05	17.15	18.10	18.30	19.80	20.10
	.25	.64	.98	1.20	2.22	2.30	2.6	2.7	7.05	7.10
	11.25	11.62	11.80	11.85	14.90	15.40	15.56	16.2	18.25	18.30
	19.65	20.0	.70	1.0	1.65	2.3	2.52	2.6	2.80	3.15
	3.40	3.55	4.5	4.6	5.25	5.50	6.95	7.25	7.90	8.35
	9.55	9.70	12.10	12.78	13.15	13.45	14.20	14.30	14.45	14.80
	19.4	20.00	0.0	.50	2.8	2.95	4.35	4.45	6.56	6.60
	7.20	7.50	7.74	7.95	8.27	8.64	8.8	8.9	12.80	13.40 (cont'd)
Chri	7.34	7.50	10.20	10.25	5.5	5.9	2.30	7.40	10.35	10.45
	14.65	14.9	3.95	4.10	4.75	4.8				
Chra	19.90	20.								
Pied	15.10	15.30	7.50	7.56						
Arir (cont'd)	15.35	15.42	16.8	17.2	18.35	18.4	19.49	19.43	.55	.95
	2.10	2.65	2.90	3.18	6.38	6.86	7.07	7.38	9.10	9.30
	9.30	9.55	11.15	11.85	15.90	16.66	17.58	19.65	18.35	18.75

186/021176 19.12 | 19.80

LINE-STRIP DATA SHEET
MATURE TREE STRATUM 83 C.2.2.5 Project 83

Orientation (degrees) 5° 51 Sheet 1 of 2

Vegetation Type Pinyon Juniper Transect # Blk- Type [illegible]

T 15 R 99W S 31 1/4 1/4 S SE/SE Transect Length [illegible]'

Aspect (degrees) 195° Slope (degrees) 16° Elevation (feet) 6502'

Field Analyst(s) Kuchel Date 9/11/76

Site Description steep area lots of erosion little brush QA Check tmw 9-13-76
~~Intermediate Clearing~~

Species	Code #	Phenology Code	# in each 6 x 20 m quadrat 1	2	3	4	5	Condition
1 Pied		—	0	0	0	0	0	normal
2 Juos		—	2	4	1	1	5	normal
3								
4								
5								

Species	Intercepts (m) I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	Trunk Diameter (cm) of Each Tree
Pied	0.00	2.01							P1-0
									P2-0
									P3 0
									P 0
									P-0
Juos	3.21	11.72	15.63	19.65	10.06	12.96	15.40	15.94	J1-5 5 38
	16.68	16.81	9.85	11.83					J2 32 5 16 54
									J3 (27.16)
									-24
									J4 (9.11.12) 52,35
									59,25

096/060175

Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

HERBACEOUS STRATUM
refer to June 75 data

Sheet 1 of 2
S3 C.22.8

Vegetation Type Sagebrush Transect # S-2

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

Field Analyst(s) Ellis Date 9-11-76 QA Check [illegible] 9-13-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Phlox multiflora		7		2	35					1	2	1	8	3	50								
g. Sandbergii		2			3		4		10		10		5		3		2		12		8		
Penstemon caespitosus		2				1	2			2	2					4	10	3	T			2	1
Agropyron Trachycaulum		2					1				1										T		
Eriogonum pumilus		7				1	T											2	T				
Phlox longifolia		7								2	T	2	T							1	T		
Leptosiphon aggregata		2														1	T					4	1
Oryzopsis hymenoides		2															1						
Penstemon fremontii		7														1	1	1	T	1	4		
Sphaeralcea coccinea		2																1	T				
Koeleria gracilis		2																					1

189/021176

pect (degrees) _____
ope (degrees) _____
evation (feet) _____
ientation (degrees) _____
getation Type Sagebrush

QUADRAT DATA SHEET

HERBACEOUS STRATUM

Refer to June 75 data

Project _____
Sheet 1 of 1

83.e.2.a.8

Transect # S-3

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m²

eld Analyst(s) Ellis Date 9-11-76 QA Check Lumi 9-13

Quadrat Number

				1		2		3		4		5		6		7		8		9		10	
rcent Bare Area																							
ecies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
arex sp.		2			6		1								5				5				10
arex geyeri		2			8		40		35		40				4		50						
a fendleriana		2			2		T																4
arrulus trachycaulus		2			3		T												5				2
ster sp.		5,6		4	5						1	T			8	1							
casanus umbellatum		2		3	4	2	3	1	T			1	T					2	6			2	2
tium breale		7				11	5	3	T	5	T			20	8	6	T	27	10			12	4
ynus arenarius		7				4	5																
hilea lanulosa		2				3	T			2	1	2	T										
nthiza depauperata		2,7						3	2														
pinus arenarius		2						1	3			1	1					1	1			1	3
ranthe aurbellata		2								1	1	1	T					4	5			8	5
ranion fremontii		7								1	1	1	2										
ra coloradiana		2											25										
nus marginatus		2											5										
cia americana		2												1	T								
tigastrus tenellus		2																1	T			4	3

189/021176

Aspect (degrees) _____
Slope (degrees) _____
Elevation (feet) _____
Orientation (degrees) _____

QUADRAT DATA SHEET
HERBACEOUS STRATUM
1975 data prepared June

Project _____
Sheet 1 of 1
83.C.2.28

Vegetation Type SAGEBRUSH 9/10 Transect # S-1

_____ R _____ S 1 1/4 1/4 S _____ Quadrat Size .5m 2

Field Analyst(s) Ellis + Reece Date 9/14/76 QA Check bm 9-13-76

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Agropy. tachy.		2			3		1		T		5		T		1		2		2		T		1
Plag. coccinea		2		17	1			2	T			3	T	3	T			1	T				
Lapplopeppus nuttallii		2		1	1																		
Phlox hoodii		8		3	2			2	T	4	3			1	T					2	4	4	4
Astragalus chamaeleuce		2		1	T					2	T												
Eriogonum ovalifolium		2		1	1																		
Poa sandbergii		6,7				6		3					T				T		T				1
Hrazopsis hymenoides		2				2		2					1		1								1
Cryptantha sericea		2				1	4			1	T												
Stipa comata		2						3		3													
Penstemon sp.		2								2	1												
Phlox longifolia		7												3	T					5	T		
Gutierrezia sarothrae		2																		1	T		

120/021176

QUADRAT DATA SHEET 83e228 Project 53

HERBACEOUS STRATUM Sheet 1 of 1

Vegetation Type ~~Sagebrush~~ Cheatgrass/Tumble Mustard Transect # S-11

_____ R _____ S 6 ¼ ¼ S _____ Quadrat Size .5m2

Field Analyst(s) [illegible] Date 9/2/86 QA Check bmw 9-13

Percent Bare Area

Species	Code #	Phen	Ht. (cm)	Quadrat Number 1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Lepidium montanum		4,5		1	T			5	T	6	T	1	T	2	1	2	T			2	T		
Chenopodium leptophyllum		4,5		2	T	2	T	3	T	10	2	3	T			12	1	3	1	4	1	6	T

189/021176

Aspect (degrees)
Slope (degrees)
Elevation (feet)
Orientation (degrees)

HERBACEOUS STRATUM

Sheet 1 of 1

Vegetation Type [illegible] / Sagebrush — Transect # S-4

R S 1/4 1/4 S — Quadrat Size .5m²

Field Analyst(s) [illegible] — Date 9/9/76 — QA Check bmm 9-13-76

Quadrat Number

Species	Code #	Phen	Ht. (cm)	1 #	1 C	2 #	2 C	3 #	3 C	4 #	4 C	5 #	5 C	6 #	6 C	7 #	7 C	8 #	8 C	9 #	9 C	10 #	10 C
Percent Bare Area																							
Stanion longifolium		6							1				1		T		T		T				
Eriogonum sp. (pentagon)		2								3	T	2	T	2	T					9	T		
Lepidium montanum		2								1	T												
agr. trachy.		7													T						1		T
Poa sandbergii		2															1						1

189/021176

QUADRAT DATA SHEET

Sheet 1 of 1

HERBACEOUS STRATUM

refer to June 75 data

83.C.2.2.5

ope (degrees)

evation (feet)

lentation (degrees)

getation Type Sage brush

Transect # S-5

R S 1/4 1/4 S

Quadrat Size .5m²

eld Analyst(s) Ellis

Date 9-11-76

QA Check June 9-13

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
cent Bare Area																					
cies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
a sandbergii		2			15		8		7		6		6		6		4		5		5		2
ipa comata		2			T																1		
ptantha sericea		2		2	T			2	T	1	T			2	T					1	T		
epycon trachycaulum		2				1					T		T		1		1		T				T
ideron pumilus		2,7						1	T	3	1	2	T	2	T	3	T	3	T	2	T	3	T
lox longifolia		8						5	T	5	1	2	T	1	T					2	1	3	T
phoersleea coccinea		2												2	T	1	T			4	T	3	1
lox hoodii		2																1	T				

189/021176

lope (degrees)_____ HERBACEOUS STRATUM Sheet 1 of 1

levation (feet)_____ June 1975 83.e.2.2.9

rientation (degrees)_____

egetation Type ~~Sagebrush~~ Transect # C-3

_____ R _____ S _____ 1/4 1/4 S _____ Quadrat Size .5m2

ld Analyst(s) Ellis + Pierce Date 9/9/76 QA Check brw 9-13-76

				Quadrat Number																	
				1		2		3		4		5		6		7		8		9		10	
ercent Bare Area																					
pecies	Code #	Phen	Ht.(cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
artemesia frigida		4		2	25			1	2					2	4					2	5	2	6
carex hymenoides		6			1										T						1		
chenopodium round recoil narrow ives		3						2	T	7	T												

189/021176

Aspect (degrees)
Slope (degrees)
Elevation (feet)
Orientation (degrees)

QUADRAT DATA SHEET

HERBACEOUS STRATUM

Project 83

Sheet 1 of

Resume June 1975 data

830.2.2.9

Vegetation Type Shadscale Transect # C-1

T R S 1/4 1/4 S Quadrat Size .5m²

Field Analyst(s) Ellis & Reece Date 6/19/75 QA Check June 9-

Percent Bare Area

				Quadrat Number																			
				1		2		3		4		5		6		7		8		9			
Species	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
happlopappus nuttallii		2		1	3											1	3			3	1		
eriog. lonchophyllum		3		1	1	2	1	9	5	5	6	1	T							3	2	3	
sphaeralcea coccinea		2										6	1					2	1				
oryzopsis hymenoides		6												1									
sitanion longifolium		7												4									
artemesia frigida		3														1	2						
																						1	

189/021176

lope (degrees) ____
levation (feet) ____
rientation (degrees) ____

HERBACEOUS STRATUM
reference June 1975

Sheet 1 of 1
83.C.2.2.10

egetation Type Upland meadow Transect # U-3

R ____ S ____ 1/4 1/4 S ____ Quadrat Size .5 m²

eld Analyst(s) Ellis + Reese Date 9/10/75 QA Check Sara 9-13-76

ercent Bare Area

				Quadrat Number 1		2		3		4		5		6		7		8		9		10	
pecies	Code #	Phen	Ht.(cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
Agro. trach		2			6		8		T		1				10				20				3
Poa Sandberg.		2,7			4		3		3		5		5		3		5		6		7		5
Koel. gracilis		2			5		1				T				3								
Pers.t. caesp.		2		6	3	5	4	4	1	2	T			6	5	4	4	1	1	2	T	1	T
Artem. frigida		2		2	T	2	1	2	T	1	T					1	T	1	1	1	1	1	T
Haplo. huttal.		2,7		2	1					1	T	1	1	3	4	1	T			4	1	2	T
Hymen. acaul.		2,7		1	1	1	4	5	3	3	2					3	4			7	3	5	
Eriog. loncho.		4,6				2	1	1	T							2	2			5	5	1	1
Astrag. spatu.		7				3	1	11	5	4	3	2	2	3	2					2	1	2	T
Oryzop. hymen.		6						1	1														
Artem. dracun		2								3	1					2	3	1	1				
Ipom. aggreg.		2										3	1			1	T						
Linum lewisii		2										2	1										
Oxytrop. lambert.		2										1	1	1	T								
Goter. saroth		5										1	3			2	2						
Astrag. chame.		2												3	T			1	T				

189/021176

pect (degrees) _____
ope (degrees) _____
evation (feet) _____
fentation (degrees) _____

QUADRAT DATA SHEET

HERBACEOUS STRATUM

refer to June 75 data

Sheet 1 of 1

S3.C.2.2.10

getation Type Upland Meadow

Transect # U-1

_____ R _____ S _____ 1/4 1/4 S _____

Quadrat Size .5m²

eld Analyst(s) Ellis

Date 9-11-76

QA Check Lunn 9-13-76

Quadrat Number

				1		2		3		4		5		6		7		8		9		10	
rcent Bare Area																							
ecies	Code #	Phen	Ht. (cm)	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C	#	C
eptoneuchycaulum		2			2		1						1		1		T		T		2		5
oloppus acaulis		7		3	5	2	10	4	30	3	5			1	1	2	6	4	2	4	5	3	5
nenoxys acaulis		2		3	T			3	T	2	T			1	T	2	T	2	T	1	T	2	T
v. sandbergii		2			3		3		1		4		5		T		3		T		1		
ogonum ctalii		2		1	T	5	4			3	1	4	1	1	T			8	1	6	1	15	1
ragalus convallarius		2		1	4	9	3	2	1	3	1	1	1	1	T			3	1			1	1
ex hookii		8		3	4					4	3	3	6					1	2				
ronia sandbergii		2		1	T			1	T			3	1	1	T			1	T	1	T	1	T
ogonum flavidum		2				1	T					2	T					1	T	1	T		
ragalus chamaeleuce		2						1	T			1	T					1	T	1	T	2	T
ogonum lombardii		4								1	1	2	4	4	1								
ipogon coccinea		2										1	T										
ndra umbellata		2												6	2							•	
erizia saxatilis		4												3	1			3	2				
ex longifolia		8												2	T								
mys nanocalta		2														1	T						
stemon caespitosus		2																		1	T	1	T

189/021176

Slope (degrees) 3°

Elevation (feet) 5500'

Orientation (degrees) 20

LINE-STRIP DATA SHEET

SHRUB STRATUM

83.C.2.2.10

Project 83

Sheet 1 of 1

Vegetation Type Upland Meadow

Transect # ~~8~~ 18

T 23 R 100W S 2 ¼ ¼ S NE/NW Transect Length 100m

Field Analyst(s) Kestrel Kaiser Date 7/11/76 QA Check Lum 7-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Eula		2	5 cm	34	43	56	11	4
2 Tica		2	6 cm	2	0	0	2	1
3 Arlc		2	6 cm	1	1	5	13	3
4 Chrv		4	15			7	17	30
5								
6								
7								
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Eula	13.44	13.50	13.67	13.73	9.5	9.56	17.10	17.25		
Artr	18.15	18.35	5.27	5.45						

186/021176

Slope (degrees) 11°
Elevation (feet) 8600'
Orientation (degrees) 320°

LINE-STRIP DATA SHEET

SHRUB STRATUM

83.C.2.2.10

Project 83

Sheet 1 of 1

Vegetation Type Upland Meadow Transect # 2-19

T 25 R 100 W S ? ¼ ¼ S SE/NW Transect Length 100 m

Field Analyst(s) Rocco Kastro Date 9/12/76 QA Check Lum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Fl.		2,5	5	—	2	8	6	52
2 Tca		2	3	—	—	5	39	39
3								
4								
5								
6								
7								
8								
9								
10								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Tca	12.45	14.56	9.90	9.94	2.87	2.93	3.07	3.08	12.72	12.74
	18.78	11.79								

186/021176

Slope (degrees) 6 LINE-STRIP DATA SHEET Project 83

Elevation (feet) 7900

Orientation (degrees) 222 SHRUB STRATUM 83.C.2.2.10 Sheet 1 of 1

Vegetation Type Upland Meadow Transect # TT-20

T 15 R 100W S 35 ¼ ¼ S SENE Transect Length 100m

Field Analyst(s) Kestrel - Schiller Date 9-9-76 QA Check Sum 9-13-76

Species	Code #	Phenology	Height (cm)	# in each 6 x 20 m quadrat 1	2	3	4	5
1 Artr		2, 5	16	60	12	24	4	9
2 Teca		2	11	5	11	6	0	13
3 Artr		2	3	7	—	1	1	—
4 Oppo		2	3	—	—	—	5	—
5 Amut		2	40	—	—	—	1	—
6 Ribes inerme		2	60	—	—	—	—	7
7 Chvi		2	27	—	—	—	—	4
8								
9								
0								

Intercepts (m)

Species	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2	I_1	I_2
Artr	1.46	1.52		13.11	13.19	13.25				
Teca	11.97	17.11	17.19	17.32						
Artr	19.61	19.95								
Ribes inerme	19.30	20.00								

186/021176

CIR GROUND TRUTHING DATA SHEET

PROJECT 83 LOCATION - Tract C-a

OBJECTIVE: Confirm the presence of diseased Douglas fir trees and ascertain the nature and extent of damage.

SITE #	LOCATION	DATE	OBSERVATION
1	534T15R100W	11/19/76	Some trees show slight frost and wind damage. Otherwise, trees appear healthy (photographs and samples taken).
2	533T15R100W	11/19/76	Same as above.
3	534T15R100W	11/19/76	Same as above.
4	527T15R100W	11/19/76	Same as above.
5	528T15R100W	11/19/76	Same as above.
6	527T15R100W	11/19/76	Same as above.

2.3.3 SMALL MAMMALS

2.3.3 Small Mammals

2.3.3.3 Results

2.3.3.3.1 Live trapping

Small mammal live trapping operations were conducted on fourteen grids in fourteen different vegetation types and variants of major vegetation types during September, 1976. All grids were sampled for five consecutive nights. Nine hundred and sixty-four individuals comprising eleven different species were captured during September, 1976 sampling. The different species captured along with their estimated overall relative abundance based on the number of individuals captured per 100 trap nights are shown in Table 2.3-22. Trapping results for each species at each grid are presented in Tables 2.3-23 through 2.3-33.

The least chipmunk (Eutamias minimus) was the most frequently captured small mammal during September 1976 and accounted for over 46% of the total relative abundance (Table 2.3-22). It was captured at all fourteen live trapping grids but was most abundant at mixed brush, pinyon-juniper/mixed brush and rabbitbrush grids (Table 2.3-25).

The deer mouse (Peromyscus maniculatus) was the second most frequently captured small mammal species during September 1976 and accounted for over 36% of the total relative abundance (Table 2.3-22). The deer mouse was captured at all fourteen sampling grids but was most abundant at rabbitbrush and pinyon-juniper/sagebrush grids (Table 2.3-27).

The Colorado chipmunk (Eutamias quadrivitattus) accounted for slightly over 9% of the total small mammal relative abundance during September 1976 (Table 2.3-22) and was captured at nine of the fourteen small mammal sampling sites. The Colorado chipmunk was most abundant at the four pinyon-juniper sites but was also regularly captured at the Douglas-fir grid (Table 2.3-26).

The red-backed vole (Clethrionomys gapperi) accounted for almost 3% of the total small mammal relative abundance during September 1976 (Table 2.3-22) but was captured only at the higher elevation aspen and Douglas-fir grids where it accounted for over 51% of the total relative abundance at the aspen grid and over 48% of the total relative abundance at the Douglas-fir grid (Table 2.3-30).

The piñon mouse (Peromyscus truei) accounted for slightly over 2% of the total small mammal relative abundance during September 1976 (Table 2.3-22) and was captured only at grids placed in pinyon-juniper vegetation types (pinyon-juniper/sagebrush, pinyon-juniper/north slope, and pinyon-juniper/south slope). The pinyon mouse

Table 2.3-22. Summary of trapping results for all small mammal species captured at all grids during sample period 9, September 1976, for RBOSP.

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Spermophilus tridecemlineatus (thirteen-lined ground squirrel)	5	0.09	0.51
Spermophilus lateralis (golden-mantled ground squirrel)	8	0.16	0.83
Eutamias minimus (least chipmunk)	448	8.81	46.48
Eutamias quadrivittatus (Colorado chipmunk	89	1.74	9.24
Lagurus curtatus (sagebrush vole)	2	0.02	0.21
Peromyscus maniculatus (deer mouse)	348	6.84	36.10
Peromyscus truei (pinon mouse)	22	0.44	2.28
Neotoma cinerea (bushy-tailed woodrat)	4	0.07	0.41
Microtus longicaudus (long-tailed vole)	4	0.07	0.41
Microtus montanus (Montane vole)	6	0.11	0,62

Table 2.3-22 (Continued)

Species	# Individuals Captured	Individuals Captured Per 100 Trap Nights 1/	Relative Abundance 2/
Clethrionomys gapperi (red-backed vole)	28	0.55	2.9
TOTAL	964	18.90	

1/ Trap night - one trap baited and set for 24 hours.

2/ (Number of individuals of each species/number of individuals of all species) x 100

Table 2.3-23. Summary of trapping results for Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 9, September ,1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.45	33.3	0.33	0.67	0.00	0.00
B	Pinyon-juniper (south slope)	0.75	55.6	0.60	0.40	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.15	11.1	1.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.16					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-24. Summary of trapping results for Spermophilus tridecemlineatus (thirteen-lined ground sqr.) on all small mammal grids during sample period 9, September, 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	3.03	100.0	0.60	0.40	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.09					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-25. Summary of trapping results for Eutamias minimus (least chipmunk) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	3.03	2.1	0.40	0.60	0.00	0.00
2	Sagebrush	9.70	6.6	0.56	0.44	0.00	0.00
3	Rabbitbrush	16.36	11.1	0.74	0.26	0.00	0.00
4	Pinyon-juniper/mixed brush	17.58	11.9	0.45	0.55	0.00	0.00
5	Mixed brush	25.45	17.3	0.52	0.48	0.00	0.00
6	Pinyon-juniper/sagebrush	13.94	9.5	0.65	0.35	0.00	0.00
7	Upland meadow	5.45	3.7	0.67	0.33	0.00	0.00
A	Greasewood-sagebrush	16.09	10.9	0.58	0.42	0.00	0.00
B	Pinyon-juniper (south slope)	11.13	7.6	0.58	0.42	0.00	0.00
C	Pinyon-juniper (north slope)	7.82	5.3	0.46	0.54	0.00	0.00
D	Sagebrush	9.62	6.5	0.48	0.50	0.02	0.00
E	Mixed brush	5.41	3.7	0.56	0.44	0.00	0.00
F	Douglas fir	2.95	2.0	0.44	0.56	0.00	0.00
G	Aspen	2.62	1.8	0.75	0.25	0.00	0.00
	AVERAGE	8.81					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-26. Summary of trapping results for Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	5.45	21.8	0.44	0.56	0.00	0.00
5	Mixed brush	0.61	2.4	0.00	1.00	0.00	0.00
6	Pinyon-juniper/sagebrush	4.85	19.4	0.25	0.75	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	1.05	4.2	0.71	0.29	0.00	0.00
B	Pinyon-juniper (south slope)	4.36	17.4	0.59	0.41	0.00	0.00
C	Pinyon-juniper (north slope)	4.66	18.6	0.35	0.65	0.00	0.00
D	Sagebrush	0.45	1.8	0.67	0.33	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	2.95	11.8	0.22	0.78	0.00	0.00
G	Aspen	0.66	2.6	1.00	0.00	0.00	0.00
	AVERAGE	1.74					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-27. Summary of trapping results for Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	8.48	7.4	0.43	0.50	0.00	0.07
2	Sagebrush	10.91	9.5	0.61	0.39	0.00	0.00
3	Rabbitbrush	18.18	15.9	0.60	0.40	0.00	0.00
4	Pinyon-juniper/mixed brush	3.64	3.2	0.50	0.50	0.00	0.00
5	Mixed brush	3.64	3.2	0.17	0.83	0.00	0.00
6	Pinyon-juniper/sagebrush	15.15	13.3	0.60	0.40	0.00	0.00
7	Upland meadow	7.88	6.9	0.54	0.46	0.00	0.00
A	Greasewood-sagebrush	9.62	8.4	0.45	0.55	0.00	0.00
B	Pinyon-juniper (south slope)	4.06	3.6	0.59	0.37	0.00	0.04
C	Pinyon-juniper (north slope)	8.12	7.1	0.54	0.44	0.02	0.00
D	Sagebrush	9.62	8.4	0.38	0.45	0.08	0.09
E	Mixed brush	6.17	5.4	0.51	0.41	0.05	0.02
F	Douglas fir	2.62	2.3	0.50	0.50	0.00	0.00
G	Aspen	6.23	5.4	0.53	0.47	0.00	0.00
	AVERAGE	6.84					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-28. Summary of trapping results for Peromyscus truei (pinon mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.61	14.4	1.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	1.95	46.4	0.46	0.54	0.00	0.00
C	Pinyon-juniper (north slope)	1.65	39.2	0.55	0.45	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.44					

* 1 trap night = one trap baited and set for 24 hours

** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-29. Summary of trapping results for Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.45	75.0	1.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.15	25.0	0.00	1.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.07					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-30. Summary of trapping results for Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	4.92	48.4	0.40	0.60	0.00	0.00
G	Aspen	5.25	51.6	0.56	0.44	0.00	0.00
	AVERAGE	0.55					

* 1 trap night = one trap baited and set for 24 hours

** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-31. Summary of trapping results for Microtus montanus (montane vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	3.64	100.0	0.67	0.33	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.11					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-32. Summary of trapping results for Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.61	40.1	1.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.61	40.1	1.00	0.00	0.00	0.00
7	Upland meadow	0.00	0.0	0.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.30	19.9	1.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.07					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

Table 2.3-33. Summary of trapping results for Lagurus curtatus (sagebrush vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	# Individuals Captured Per 100 Trap Nights *	Relative Abundance **	Proportion Captured Adult M	Adult F	Juvenile M	Juvenile F
1	Bottomland meadow	0.00	0.0	0.00	0.00	0.00	0.00
2	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
3	Rabbitbrush	0.00	0.0	0.00	0.00	0.00	0.00
4	Pinyon-juniper/mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
5	Mixed brush	0.00	0.0	0.00	0.00	0.00	0.00
6	Pinyon-juniper/sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
7	Upland meadow	0.61	80.1	1.00	0.00	0.00	0.00
A	Greasewood-sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
B	Pinyon-juniper (south slope)	0.00	0.0	0.00	0.00	0.00	0.00
C	Pinyon-juniper (north slope)	0.00	0.0	0.00	0.00	0.00	0.00
D	Sagebrush	0.00	0.0	0.00	0.00	0.00	0.00
E	Mixed brush	0.15	19.9	1.00	0.00	0.00	0.00
F	Douglas fir	0.00	0.0	0.00	0.00	0.00	0.00
G	Aspen	0.00	0.0	0.00	0.00	0.00	0.00
	AVERAGE	0.04					

* 1 trap night = one trap baited and set for 24 hours
** (# of individuals of each species / # of individuals of all species) X 100

was most abundant (over 46% relative abundance) at the pinyon-juniper/south slope sampling site (Table 2.3-28).

The thirteen lined ground squirrel (Spermophilus tridecemlineatus), sagebrush vole (Lagurus curtatus), bushy-tailed woodrat (Neotoma cinerea), long-tailed vole (Microtus longicaudus) and montane vole (Microtus montanus) each accounted for less than 1% of the total small mammal relative abundance during September 1976 (Table 2.3-22).

The golden-mantled ground squirrel was captured at three sampling sites but was most abundant at the pinyon-juniper/south slope site (Table 2.3-23).

The thirteen-lined ground squirrel was captured only at the flat sagebrush sampling site on 84 Mesa (3.03 individuals per 100 trap nights) (Table 2.3-24).

The long-tailed vole and the montane vole were both captured most frequently at the bottomland meadow sampling site while the sagebrush vole was most abundant at the upland meadow sampling site.

The bushy-tailed woodrat was captured only at north and south slope pinyon-juniper sites during September 1976 (Table 2.3-29).

Average adult weights for small mammal species captured on each grid are shown in Tables 2.3-34 through 2.3-44. Only the initial capture weights were used in average weight determination.

Shannon-Weiner species diversity indices are presented for each grid in Table 2.3-45. Although some of the results are not directly comparable due to differential trapping efforts allocated to the various grids, both north and south slope pinyon-juniper grids showed high species diversity. Diversity was also high on Douglas-fir, aspen, bottomland meadow, and pinyon-juniper/sagebrush grids.

2.3.3.3.2 Pitfall trapping

Pitfall trapping was conducted during live trapping operations in September 1976. One masked shrew (Sorex cinereus) and one long-tailed vole were captured at the rabbitbrush sampling site. One masked shrew was also taken in a pitfall trap at the aspen sampling site.

2.3.3.3.3 Stomach analysis and reproductive effort

Reproductive data for small mammals gathered during July 1976 are presented in Table 2.3-46. Deer mice were reproductively active at all sample locations during July 1976. Least chipmunks were active

Table 2.3-34. Average live weights (gm) for adult Spermophilus lateralis (golden-mantled grd. sqr.) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	1	131.0		2	163.0	6.0	3	152.3	11.2
B	Pinyon-juniper (south slope)	2	139.5	11.5	1	142.0		3	140.3	6.7
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	1	128.0		0			1	128.0	
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	4	134.5	5.5	3	156.0	7.8	7	143.7	6.0

Table 2.3-35. Average live weights (gm) for adult Spermophilus tridecemlineatus (thirteen-lined grd. sqr.) on all small mammal grids during sample period 9, September, 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	3	58.7	5.2	2	55.5	0.5	5	57.4	3.0
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	3	58.7	5.2	2	55.5	0.5	5	57.4	3.0

Table 2.3-36. Average live weights (gm) for adult Eutamias minimus (least chipmunk) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	2	31.0	1.0	3	30.7	1.2	5	30.8	0.7
2	Sagebrush	9	32.2	0.8	7	32.3	0.8	16	32.3	0.6
3	Rabbitbrush	19	29.3	0.6	5	30.4	2.1	24	29.5	0.6
4	Pinyon-juniper/mixed brush	11	27.6	1.0	16	31.8	1.3	27	30.1	0.9
5	Mixed brush	20	31.9	0.6	19	31.4	0.6	39	31.7	0.4
6	Pinyon-juniper/sagebrush	15	31.8	0.9	5	35.2	3.2	20	32.7	1.1
7	Upland meadow	5	28.6	0.5	2	27.5	1.5	7	28.3	0.5
A	Greasewood-sagebrush	55	31.3	0.3	36	32.1	0.5	91	31.6	0.3
B	Pinyon-juniper (south slope)	30	30.8	0.5	25	32.0	0.7	55	31.3	0.4
C	Pinyon-juniper (north slope)	22	31.5	0.6	24	32.1	0.5	46	31.8	0.4
D	Sagebrush	30	30.6	0.8	30	31.3	0.3	60	30.9	0.4
E	Mixed brush	18	28.1	0.6	15	29.1	0.8	33	28.5	0.5
F	Douglas fir	4	29.5	1.4	5	31.6	2.4	9	30.7	1.5
G	Aspen	6	29.5	1.8	2	27.5	2.5	8	29.0	1.5
	SUMMARY--ALL GRIDS	246	30.6	0.2	194	31.6	0.2	440	31.0	0.2

Table 2.3-37. Average live weights (gm) for adult Peromyscus maniculatus (deer mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	5	16.2	1.1	7	16.7	1.5	12	16.5	1.0
2	Sagebrush	10	16.3	0.5	7	17.4	1.0	17	16.8	0.5
3	Rabbitbrush	16	14.9	0.6	12	14.7	0.6	28	14.8	0.5
4	Pinyon-juniper/mixed brush	3	16.7	0.7	3	15.7	4.2	6	16.2	1.9
5	Mixed brush	1	15.0		5	15.2	1.2	6	15.2	0.9
6	Pinyon-juniper/sagebrush	15	16.7	1.1	6	15.2	0.9	21	16.3	0.8
7	Upland meadow	7	14.9	0.8	6	14.7	1.1	13	14.8	0.6
A	Greasewood-sagebrush	23	16.7	0.5	30	16.1	0.5	53	16.4	0.4
B	Pinyon-juniper (south slope)	15	17.1	0.6	10	17.3	0.6	25	17.2	0.4
C	Pinyon-juniper (north slope)	28	15.7	0.4	23	16.0	0.6	51	15.8	0.3
D	Sagebrush	24	15.7	0.5	26	14.7	0.5	50	15.2	0.3
E	Mixed brush	18	16.3	0.4	16	15.4	0.4	34	15.9	0.3
F	Douglas fir	4	17.0	0.4	4	17.3	0.9	8	17.1	0.4
G	Aspen	10	15.5	0.8	9	14.2	0.6	19	14.9	0.5
	SUMMARY--ALL GRIDS	179	16.1	0.2	164	15.7	0.2	343	15.9	0.1

Table 2.3-38. Average live weights (gm) for adult Peromyscus truei (pinon mouse) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	1	20.0		0			1	20.0	
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	5	20.0	0.6	7	19.7	1.1	12	19.8	0.7
C	Pinyon-juniper (north slope)	6	18.2	0.7	4	17.3	1.2	10	17.8	0.6
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	12	19.1	0.5	11	18.8	0.9	23	19.0	0.5

Table 2.3-39. Average live weights (gm) for adult Neotoma cinerea (bushy-tailed wood rat) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	3	159.0	9.7	0			3	159.0	9.7
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	3	159.0	9.7	0			3	159.0	9.7

Table 2.3-40. Average live weights (gm) for adult Clethrionomys gapperi (red-backed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	3	12.7	0.7	5	14.4	0.5	8	13.8	0.5
G	Aspen	4	11.8	0.9	4	13.0	1.1	8	12.4	0.7
	SUMMARY--ALL GRIDS	7	12.1	0.6	9	13.8	0.6	16	13.1	0.4

Table 2.3-41. Average live weights (gm) for adult Microtus montanus (montane vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	4	28.5	6.0	2	18.5	1.5	6	25.2	4.4
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	4	28.5	6.0	2	18.5	1.5	6	25.2	4.4

Table 2.3-42. Average live weights (gm) for adult Microtus longicaudus (long-tailed vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	1	14.0		0			1	14.0	
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	2	24.5	0.5	0			2	24.5	0.5
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	0			0			0		
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	3	21.0	3.5	0			3	21.0	3.5

Table 2.3-43. Average live weights (gm) for adult Eutamias quadrivittatus (Colorado chipmunk) on all small mammal grids during sample period 9, September, 1976 for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	4	45.8	1.9	5	46.4	2.7	9	46.1	1.6
5	Mixed brush	0			1	43.0		1	43.0	
6	Pinyon-juniper/sagebrush	2	46.5	0.5	6	48.2	2.1	8	47.8	1.6
7	Upland meadow	0			0			0		
A	Greasewood-sagebrush	5	44.4	2.1	2	48.0	0.0	7	45.4	1.6
B	Pinyon-juniper (south slope)	17	44.4	0.9	12	44.3	1.2	29	44.3	0.7
C	Pinyon-juniper (north slope)	9	47.9	1.3	19	45.1	1.5	28	46.0	1.1
D	Sagebrush	2	47.0	1.0	1	42.0		3	45.3	1.8
E	Mixed brush	0			0			0		
F	Douglas fir	2	49.0	1.0	7	47.0	1.6	9	47.4	1.3
G	Aspen	2	47.0	4.0	0			2	47.0	4.0
	SUMMARY--ALL GRIDS	43	45.8	0.6	53	45.6	0.7	96	45.7	0.5

Table 2.3-44. Average live weights (gm) for adult Lagurus curtatus (sagebrush vole) on all small mammal grids during sample period 9, September 1976, for RBOSP

Grid	Vegetation type	MALE n	MALE Average	MALE Std. Error	FEMALE n	FEMALE Average	FEMALE Std. Error	ALL ADULTS n	ALL ADULTS Average	ALL ADULTS Std. Error
1	Bottomland meadow	0			0			0		
2	Sagebrush	0			0			0		
3	Rabbitbrush	0			0			0		
4	Pinyon-juniper/mixed brush	0			0			0		
5	Mixed brush	0			0			0		
6	Pinyon-juniper/sagebrush	0			0			0		
7	Upland meadow	1	18.0		0			1	18.0	
A	Greasewood-sagebrush	0			0			0		
B	Pinyon-juniper (south slope)	0			0			0		
C	Pinyon-juniper (north slope)	0			0			0		
D	Sagebrush	0			0			0		
E	Mixed brush	1	20.0		0			1	20.0	
F	Douglas fir	0			0			0		
G	Aspen	0			0			0		
	SUMMARY--ALL GRIDS	2	19.0	1.0	0			2	19.0	1.0

Table 2.3-45. Shannon-Weiner diversity indices (H'), unbiased estimates of H' (E(H')), variance of H' (var (H')), maximum expected value of H' (H'(max)), and equitability (J) for all small mammal grids during sample period 9, September 1976, for RBOSP

Grid Designation	Vegetation Type	H'	E(H')	var(H')	H'(max)	J
1	Bottomland meadow	1.114	1.056	0.015	1.386	0.804
2	Sagebrush	0.986	0.960	0.004	1.099	0.897
3	Rabbitbrush	0.692	0.683	0.000	0.693	0.998
4	Pinyon-juniper/mixed brush	0.871	0.848	0.009	1.099	0.793
5	Mixed brush	0.469	0.448	0.013	1.099	0.427
6	Pinyon-juniper/sagebrush	1.143	1.108	0.008	1.609	0.710
7	Upland meadow	0.826	0.782	0.012	1.099	0.752
A	Greasewood-sagebrush	0.923	0.912	0.003	1.609	0.573
B	Pinyon-juniper (south slope)	1.376	1.359	0.004	1.792	0.768
C	Pinyon-juniper (north slope)	1.288	1.274	0.002	1.609	0.800
D	Sagebrush	0.825	0.814	0.003	1.386	0.595
E	Mixed brush	0.751	0.738	0.002	1.099	0.683
F	Douglas fir	1.352	1.316	0.002	1.386	0.976
G	Aspen	1.256	1.213	0.009	1.609	0.781

Table 2.3-46. Summary of reproductive data for deer mice, least chipmunks, and long-tailed voles collected during July 1976 for RBOSP.

	Sample Size	# Embryos	# Placental Scars
Deer Mouse (*Peromyscus maniculatus*)			
Pinyon-juniper (south)	4	--	6, 4
Pinyon-juniper (north)	5	--	7, 9, 7
Greasewood-sagebrush	5	--	7, 4
Sagebrush	4	--	7
Mixed Brush	1	--	6 (lactating)
Least Chipmunk (*Eutamias minimus*)			
Pinyon-juniper (south)	4	--	7
Pinyon-juniper (north)	2	--	--
Greasewood-sagebrush	3	--	nulliparous
Sagebrush	0	--	--
Mixed Brush	3	--	6
Long-tailed Vole (*Microtus longicaudus*)			
Aspen	5	3,5	

at the pinyon-juniper/south slope and mixed brush sample sites. The average litter size, calculated from placental scars, was 6.3 for the deer mouse and 6.5 for the least chipmunk. Long-tailed voles collected at the aspen sample site were the only small mammals examined in July 1976 that had embryos. Litter size, calculated from embryos, was 4.0 for the long-tailed vole.

The results of stomach content analyses for the deer mouse, least chipmunk, and long-tailed vole collected at different sampling sites during July 1976 are shown in Table 2.3-47.

Stomach contents of deer mice collected during July 1976 contained primarily seed parts and succulent vegetation. Seeds comprised the highest percentage of deer mouse stomach contents at both pinyon-juniper sites and at mixed brush and sagebrush sampling sites. Invertebrate and vertebrate material occurred less often in deer mouse stomachs. The highest percentage of invertebrate material was from deer mouse samples collected in north-facing pinyon-juniper while deer mice collected from pinyon-juniper/south slope sites showed the highest percentage of vertebrate material in their stomach contents. Invertebrate and vertebrate material occurred more often in deer mice stomaches than in least chipmunk stomachs. Deer mice collected from greasewood-sagebrush had empty stomachs. Stomach contents of the least chipmunks collected during July 1976 contained primarily seeds. Succulent parts occurred most frequently in chipmunk stomachs collected in greasewood-sagebrush and sagebrush. Long-tailed voles collected at the aspen sampling site during July 1976 contained only vegetal material (40% seed; 60% succulent) in their stomachs.

2.3.3.3.4 Night spotlight census

Night spotlight censuses for medium-sized mammals, particularly lagomorphs, were conducted on the nights of October 26 and 27, 1976. Road and weather conditions were favorable and the entire 30-mile census route was sampled on both nights. The results of the night spotlight censuses conducted this quarter are presented in Table 2.3-48.

Population densities have been calculated for lagomorph species, cottontail and white-tailed jackrabbit, only. Mule deer, elk, and a coyote were also observed during these spotlight censuses and this information will be included on distribution maps presented in the final report.

Estimated population densities for the cottontail and white-tailed jackrabbit of 0.09 and 0.17 animals per hectare respectively are relatively high as compared with previous data from this survey. Many white-tailed jackrabbits were noted in the sparse sage and open grassy areas on Cathedral Bluffs and along the gas line right-of-way.

Table 2.3-47. Summary of stomach analysis data for deer mice, least chipmunks, and long-tailed voles collected during July 1976 for RBOSP.

	Pinyon-juniper (south slope)	Pinyon-juniper (north slope)	Greasewood-Sagebrush	Sagebrush	Mixed Brush	Aspen
Deer Mouse (*Peromyscus maniculatus*)						
Invertebrate	1.5	7.2	0.0	4.0	4.0	--
Vertebrate	10.0	.4	0.0	2.0	1.0	--
Vegetal						
Seed	73.0	86.4	0.0	75.6	85.5	--
Succulent	15.5	6.0	0.0	18.4	9.5	--
TOTAL	100.0	100.0	0.0	100.0	100.0	--
Least Chipmunk (*Eutamias minimus*)						
Invertebrate	3.6	4.0	0.8	0.0	0.5	--
Vertebrate	0.0	2.0	0.8	1.0	0.0	--
Vegetal						
Seed	81.6	92.0	69.2	35.0	82.0	--
Succulent	14.8	2.0	29.2	64.0	17.5	--
TOTAL	100.0	100.0	100.0	100.0	100.0	--

Table 2.3-47 (Continued)

	Pinyon-juniper (south slope)	Pinyon-juniper (north slope)	Greasewood-Sagebrush	Sagebrush	Mixed Brush	Aspen
Long-tailed Vole (*Microtus longicaudus*)						
Vegetal						
Seed	--	--	--	--	--	40.00
Succulent	--	--	--	--	--	60.00
TOTAL	--	--	--	--	--	100.00

1/ All data represented as percent of stomach contents.

Table 2.3-48. Results of the night spotlight census conducted on October 26 and 27, 1976 for RBOSP [1/]

Species	Number Sighted	Hectares Covered	Population Estimate/Hectare
Cottontail (*Sylvilagus* sp.)	8	89.5	0.09
White-tailed jackrabbit (*Lepus townsendii*)	15	89.5	0.17

[1/] Results are reported for lagomorph and other medium-sized mammal species only. Big game and mammalian predator information gathered during night spotlight censuses have been included on distribution maps presented in the final report.

2.3.3.5. Small Mammal Raw Data

SMALL MAMMAL RAW DATA

File No. 83-C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location Greasewood/Sage Sample Period 9

Habitat _____ Field Analyst DCK, USR
June 9-19-76

Date	Trap* Size	Bait	Species	Age	Sex	Comments
9/16/76	L	carrion	no captures	—	—	—
9/17/76	L	"	no captures	—	—	—
9/18/76	L	"	No captures	—	—	—
9/19/76	L	"	No captures	—	—	—
	trap	pulled	9/19/76			

File No. 83-C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location PJ north Sample Period 9

Habitat Pinyon Juniper Field Analyst DCK, DSR
Trans 9-17-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/16/76	S	carrion	no captures	—	—	—
9/17/76	S	carrion	No captures	—	—	—
9/18/76	S	carrion	No captures	—	—	—
9/19/76	S	carrion	No captures	—	—	—

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No: [illegible]

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location PJ North Sample Period 9

Habitat Pinyon Juniper Field Analyst DCK, NSR
Sent 9-R-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/16/76	S	carrion	no captures	—	—	—
9/17/76	S	carrion	NO captures	—	—	—
9/18/76	S	carrion	No captures	—	—	—
9/19/76	S	carrion	No captures	—	—	—

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83-073

DAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location Grasswood Sage Sample Period 9

Habitat _____ Field Analyst DCK, DSR
June 8-19-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9/16/76	L	carrion	No captures	—	—	—
9/17/76	L	"	No captures	—	—	—
9/18/76	L	"	No captures	—	—	—
9/19/76	L	"	No captures	—	—	—
	trap	pulled	9/19/76			

File No. 83-1.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location RBOSP Tract C-a Sample Period Sept 76

Habitat mixed brush, South Slope Field Analyst Stang / Martin
Stang 9-19-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
16 Sept	L	Sardines	No Captures			
17 Sept	L	"	" "			
18 Sept	L	"	" "			
19 Sept	L	"	" "			
		Trap pulled				

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83-C.7.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location Ross Trail C-a Sample Period Sept 76

Habitat Aspen Field Analyst Seay / Martin
Seay 9-19-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
16 Sept	L	Sardines	No Captures			
17 Sept	L	"	" "			
18 Sept	L	"	" "			
		trap pulled				

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. 83-C.T.3

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location South Slope P-J, Tract C-a Sample Period 9

Habitat P-J Field Analyst McGuire

Term 9-19-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9-16-76	S	sardines	No captures			
9-17-76	S	PEMA	No captures			
9-18-76	S	PEMA	No captures			
9-19-76	S	PEMA	No captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

File No. T2-0.7.2

HAVAHART LIVE TRAP FIELD DATA SHEET

Project 83 Location Tract C-e Grid D, Sagebrush Sample Period 9

Habitat Sagebrush Field Analyst Mc Guire

Lem 9-19-76

Date	Trap Size*	Bait	Species	Age	Sex	Comments
9-16-76	S	sardines	No captures			
9-17-76	S	sardines	No captures			
9-18-76	S	sardines	No captures			
9-19-76	S	sardines	No captures			

*Trap Size: S = 5" x 5" x 18"
M = 7" x 7" x 30"
L = 11" x 13" x 42"

Sheet 1 of 1 File No: 83.C.3.1.1

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Bottomland Marked Grid 1 Sample Period Sept. 76-9 Trap Night 1

Date, time traps set 0830 9-14-76 Date, time traps checked 0830 9-15-76

Last toe clip # used on previous day 2004/1021 Field Analyst(s) McGuire - Schiller

Project 83 (Bag wt. Kg.) QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
3-7	MIMO	2005N	♂	AD	12	I	
5-6	PEMA	2010N	♂	AD	12	I	
4-2	EUMI	2020N	♂	AD	17	I	
4-7	PEMA	2030N	♀	AD	9	I	
4-8	PEMA	2040N	♂	AD	9	I	
4-10	Mustela frenata	—	♀	AD	43	I	almost dead: toe-clipping would killed it

*V taxonomic characters, physical condition of animal, etc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Bottomland Meadow Grid 1 Sample Period 9 Trap Night 2

Date, time traps set 0830 9-15-76 Date, time traps checked 0830 9-16-76

Last toe clip # used on previous day 2040 Field Analyst(s) McGuire - Schiller

Project RBOSP-83 (Bag wt 19g) QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
7-4	EUMI	2050N	F	A	33	I	
3-4	PEMA	0024	F	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

Sheet 2 of 2 File No: 83.0.2.1.2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Bottomland Meadow Grid 1 Sample Period 9 Trap Night 2

Date, time traps set 0830 9-15-76 Date, time traps checked 0830 9-16-76

Last toe clip # used on previous day 1034 Field Analyst(s) McGuire - Schiller

Project RBOSP-83 QA Check bmw 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-9	PEMA	1022N	F	A	18	I	
B-8	PEMA	1023N	F	A	24	A	Pregnant
B-7	PEMA	1024N	F	A	18	I	
B-6	MIMO	1025N	F	A	20	I	
B-5	FAMI	1031N	M	A	30	I	dead in Trap

*Key taxonomic characters, physical condition of animal, etc.

Sheet 1 of 2 File No: K2.C.5.7.2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name B Homeland Meadow Grid 1 Sample Period 9 Trap Night 3

Date, time traps set 0800 9-16-76 Date, time traps checked 0800 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lewis 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-12	PEMA	2200N	M	A	U	I	Dead
3	PEMA	2100N	F	A	13	I	poor shape
-9	MILO	2300N	M	A	U	I	Dead; collected for voucher
-5	MIMO	~~2300~~ 2400	F	A	17	I	

*Key taxonomic characters, physical condition of animal, etc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Bottomland Mesic Grid 1 Sample Period 9 Trap Night 4

Date, time traps set 0830 9/17/76 Date, time traps checked 0800 9/18/76

Last toe clip # used on previous day 1033 Field Analyst(s) McComb/Sutton

Project RBOSP-83 QA Check bm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
7-7	PEMA	1034N	M	A	16	F	
3-6	MIMO	1035N	M	A	40	I	Dead in Trap

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 23.C.5.1.2.A

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name Bottomland Meadow Grid 1 Sample Period 9 Trap Night 4

ate, time traps set 0800 9-17-76 Date, time traps checked 0800 9-18-76

ast toe clip # used on previous day 2300 Field Analyst(s) McGuire

roject 83 QA Check Lucas 9-18-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-2	PEMA	2400 N	M	A	17	I	

Key taxonomic characters, physical condition of animal, etc.

070/060175

eet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rld Name Bottomland Meadow Grid 1 Sample Period 9 Trap Night 5

ite, time traps set 0800 9-18-76 Date, time traps checked 0800 9-19-76

ost toe clip # used on previous day 1035 Field Analyst(s) McGuire

Project RBOSP-83 QA Check bmw 9-19-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-11	MIMO	1041N	M	A	34	I	Dead in Trap
-9	PEMA	1042N	F	A	17	I	
-7	PEMA	1043N	M	A	18	I	
-6	MIMO	1044N	M	A	28	I	Dead in Trap

Key taxonomic characters, physical condition of animal, etc.

070/060175

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name Bottomland Meadow Grid 1 Sample Period 9 Trap Night 5

ate, time traps set 0800 9-15-76 Date, time traps checked 0800 9-19-76

ast toe clip # used on previous day 2400 Field Analyst(s) McGuire

roject RBOSP-83 QA Check [illegible] 9-19-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
1-2	PEMA	2400	M	A	12	I	
-3	PEMA	3001N	F	A	12	I	

Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid 2 Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (0830) Date, time traps checked 9/15/76 (0845)

Last toe clip # used on previous day 4020 Field Analyst(s) DCK, NSR

Project 83 QA Check [signature] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	Eumi	4100	M	A	33	I	—
C-1	Eumi	4030N	M	A	30	I	poor condition
C-3	Pema	4040N	F	A	20	I	—
A-2	Pema	4055	F	A	17	I	—
C-10	Pema	0420	F	A	16	I	—
C-12	Pema	4050N	M	A	17	I	—
C-13	Eumi	1011 N	F	A	31	I	—
A-11	Pema	3040	M	A	18	I	poor toe-clip could be 3090
A-9	Eumi	1020	M	A	34	I	—
A-7	PEMA	0220	M	A	18	I	—
A-4	PEMA	2255	M	A	18	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 82.C.5.1.2.3

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (flat) Grid 2 Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (0845) Date, time traps checked 9/16/76 (0810)

Last toe clip # used on previous day 4055 Field Analyst(s) dck

Project 83 QA Check Jun 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C3	EUMI	4100	M	A	R	I	—
C6	PEMA	4070	F	A	R	I	—
B6	PEMA	1403N	M	A	16	I	—
C9	PEMA	1404N	F	A	14	I	—
C10	PEMA	6000N	M	A	D	I	—
B10	EUMI	0102	M	A	33	I	—
C11	EUMI	1405N	M	A	32	I	—
A13	EUMI	1011	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name Sagebrush flat Grid 3 Sample Period 9 Trap Night 2

ate, time traps set 9/15/76 8:45 Date, time traps checked 9/16/76 8:15

ast toe clip # used on previous day 1011 Field Analyst(s) NSR

oject 83 QA Check Jmw 9-16-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
71	PEMA	1012N	F	A	19	I	—
12	EUMI	1013N	F	A	34	I	—
97	EUMI	1014N	M	A	33	I	—
99	EUMI	1020N	M	A	R	I	—
A10	SPTR	1015N	F	A	55	I	—
A11	PEMA	1021N	F	A	21	I	—

Key taxonomic characters, physical condition of animal, etc.

Sheet 1 of 2 File No: 83.C.5.1.2.3

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (flat) Grid 2 Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 (0815) Date, time traps checked 9/17/76 (0815)

Last toe clip # used on previous day 14105 Field Analyst(s) dck

Project 83 QA Check dmm 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C6	PEMA	2255	M	A	R	I	-
C7	EUMI	1020	M	A	R	I	-
C8	PEMA	0420	F	A	R	I	-
C9	EUMI	1014	M	A	R	I	-
C10	PEMA	3000	M	A	16	I	-
C11	PEMA	0111M	M	A	15	I	-
C12	EUMI	1011	F	A	R	I	-
A13	EUMI	0112M	F	A	30	I	-

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush flat Grid 2 Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 8:15 Date, time traps checked 9/17/76 8:15

Last toe clip # used on previous day 1021 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Eumi	4030	M	A	R	I	—
A2	Eumi	4100	m	A	R	I	—
A4	PEMA	0220	m	A	R	I	—
A5	SPTR	4005	F	A	67	I	—
A7	PEMA	1022N	m	A	16	I	—
A9	Eumi	1300	m	A	31	I	—
A11	Eumi	1405	m	A	R	I	—
A12	Eumi	1023N	F	A	32	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. 83-12-108-2

Grid Name Sagebrush (Flat) Grid 2 Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 (0815) Date, time traps checked 9/18/76 (0830)

Last toe clip # used on previous day 0112 Field Analyst(s) dkk

Project 83 QA Check brm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D4	EUMI	4100	M	A	R	I	-
C5	EUMI	4020	M	A	28	I	-
B6	PEMA	4040	F	A	R	I	-
B9	EUMI	1405	M	A	R	I	-
C9	EUMI	1200	M	A	R	I	-
C10	PEMA	0420	F	A	R	D	-
A13	EUMI	1011	F	A	R	I	-

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET FTC No: [illegible]

Grid Name Sawtooth Ridge Grid 2 Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 815 Date, time traps checked 9/18/76 830

Last toe clip # used on previous day 1023 Field Analyst(s) USR

Project 83 QA Check bm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	1024N	F	A	30	I	—
A2	EUMI	1025N	F	A	36	I	—
A3	EUMI	0402	M	A	33	I	—
A4	SPTR	0450	M	A	60	I	—
A5	SPTR	4025	M	A	R	I	—
A9	PEMA	1021	F	A	R	I	—
A11	SPTR	1015	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5,1.2

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush (Plot 1) Grid 2 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 (0830) Date, time traps checked 9/19/76 (0800)

Last toe clip # used on previous day 0113 Field Analyst(s) dek

Project 83 QA Check hrm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C3	PEMA	2255	M	A	R	I	-
C4	PEMA	0114N	M	A	16	I	-
B4	PEMA	0115N	M	A	13	I	-
C5	SPTR	4200	M	A	49	I	-
B7	EUMI	0102	F	A	R	I	def. a ♀ not P
B9	PEMA	0111	M	A	R	I	-
C10	PEMA	1021	F	A	R	D	-
C12	PEMA	0121N	F	A	15	I	-

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush-flat Grid 2 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 830 Date, time traps checked 9/19/76 806

Last toe clip # used on previous day 1025 Field Analyst(s) NSR

Project 83 QA Check Lum 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	SPT	0450	M	A	R	I	—
A2	EUMI	4030	M	A	R	I	—
A4	PEMA	0220	M	A	R	I	—
A7	EUMI	1200	M	A	R	I	—
A8	EUMI	1020	M	A	R	I	
A10	SPTR	1015	F	A	R	I	fleas
A11	SPTR	1031N	F	A	56	I	—
A12	EUMI	1032N	M	A	36	I	—
A13	EUMI	1405	M	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

0450 - MST

eet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

rid Name Rabbitbrush Grid 3 Sample Period Sept '76-9 Trap Night 1

ate, time traps set 10:30 9/14/76 Date, time traps checked 1:30 9/15/76

ast toe clip # used on previous day 3405 Field Analyst(s) McGuire / Sullivan

roject BLM SP - 83 QA Check [illegible] 9-15-76

apt. oc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-13	EUMI	2034	♂	ad	32	I	
-10	EUMI	2035	♀	ad	38	I	
-7	PEMA	2120	♂	ad	18	I	
-6	PEMA	3110N	♀	ad	16	I	
-4	EUMI	2051	♂	ad	31	I	
-2	PEMA	3120N	♂	ad	18	I	
-2	EUMI	3033	♀	ad	—	I	escaped before weighing
2-5	PEMA	3130N	♀	ad	16	I	

Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period Sept 76 - 9 Trap Night 1

Date, time traps set 1330 9-14-76 Date, time traps checked 1330 9-15-76

Last toe clip # used on previous day 2350 Field Analyst(s) McGuire - Schiller

Project 83 (Bag wt 18g) QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	EUMI	2202	♂	AD	29	I	
B-9	PEMA	2410 N	♂	AD	14	I	
A-7	PEMA	2420 N	♂	AD	14	I	
A-5	PEMA	2330	♀	AD	13	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 File No: 83.C.5.1.2.7

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 2

Date, time traps set 1300 9-15-76 Date, time traps checked 1300 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBSP QA Check Crow 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-13	PEMA	2430W	F	A	16	I	
A-12	PEMA	2440W	F	A	19	I	
A-8	PEMA	2450W	F	A	12	I	
B-8	EUMI	—	—	—	—	—	Escaped
B-6	PEMA	3130	F	A	U	I	DEAD
B-4	EUMI	2051	M	A	28	I	Torpor

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83-...-2.1

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 2

Date, time traps set 1300 9-15-76 Date, time traps checked 1300 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBOSP Bag wt = 12 gm QA Check Lmm 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUMI	2035	M	A	38	F	
C-11	PEMA	3140N	M	A	16	F	
C-9	EUMI	3025	M	A	30	I	
C-8	PEMA	2120	M	A	18	I	
C-5	PEMA	3150N	F	A	15	F	
C-4	EUMI	3032	M	A	30	I	
C-3	EUMI	2054	M	A	28	F	
C-1	PEMA	3210N	M	A	17	I	
A-3	PEMA	3220N	M	A	14	I	
A-1	PEMA	3230N	M	A	12	F	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbithrush Grid 3 Sample Period 9 Trap Night 3

Date, time traps set 1000 9-16-76 Date, time traps checked 1000 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Sum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-10	EUMI	2042	M	A	28	I	
A-9	PEMA	3011N	M	A	11	I	
A-7	PEMA	2420	M	A	15	I	
B-7	EUMI	2104	F	A	25	I	
A-6	PEMA	3012N	F	A	17	I	
A-5	EUMI	3013N	M	A	27	I	
B-4	EUMI	2033	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. 13.6.3.7.2.7

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 3

Date, time traps set 1000 9-16-76 Date, time traps checked 1000 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lum 9-17-76

Capt. loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-9	EUMI	3240N	M	A	29	I	
C-8	EUMI	3025	F	A	27	I	
C-6	PEMA	3250N	M	A	12	I	
C-5	EUMI	3032	F	A	33	I	
C-3	EUMI	3033	F	A	33	I	
C-2	EUMI	3303	M	A	28	I	
C-1	EUMI	3034	M	A	33	I	
A-3	PEMA	3310N	M	A	17	I	
A-4	EUMI	2441	M	A	22	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

FIG NO. 83.15.1.a

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name RABBITBRUSH Grid 3 Sample Period 9 Trap Night 4

Date, time traps set 1130 17 Sept 76 Date, time traps checked 1100 18 Sept 76

Last toe clip # used on previous day 3310 Field Analyst(s) [illegible]

Project RB050-83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional Notes*
C-13	EUMI	2034	M	A	30	I	
C-10	EUMI	2035	F	A	35	I	
C-9	EUMI	4110N	M	A	29	I	
C-8	EUMI	2042	M	A	30	I	Dead in Trap
C-6	EUMI	2051	M	A	29	I	
C-5	PEMA	4120N	M	A	18	I	
C-3	PEMA	4130N	F	A	13	I	
C-2	PEMA	2053	F	A	16	I	
A-1	EUMI	3051	M	A	34	I	
A-3	EUMI	2033	F	A	28	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 4

Date, time traps set 1100 9-17-76 Date, time traps checked 1100 9-18-76

Last toe clip # used on previous day 3013 Field Analyst(s) McGuire

Project 83 QA Check Lum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	PEMA	3014N	M	A	11	I	
A-11	EUMI	3015N	M	A	28	I	
A-10	PEMA	3052N	M	A	15	I	
A-8	PEMA	2420	M	A	17	I	
A-7	EUMI	2304	F	A	29	I	
A-6	PEMA	3053N	M	A	U	I	DEAD
A-5	PEMA	2330	F	A	13	I	
A-4	PEMA	3054N	M	A	14	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 5

Date, time traps set 1130 9-18-76 Date, time traps checked 1300 9-19-76

Last toe clip # used on previous day 4130 Field Analyst(s) McGuire

Project RBOSP-83 QA Check [illegible] 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUMI	2032	M	A	30	I	Dead in Trap
C-10	EUMI	2230	M	A	29	I	" " "
C-9	PEMA	2205	M	A	18	I	" " "
C-5	EUMI	4140N	M	A	32	I	" " "
C-4	EUMI	2054	M	A	31	I	" " "
C-3	EUMI	3041	M	A	28	I	" " "
C-2	EUMI	3034	M	A	33	I	" " "
C-1	PEMA	4150N	F	A	16	I	
A-1	EUMI	4210N	M	A	30	I	Dead in trap
A-3	PEMA	3310	M	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Rabbitbrush Grid 3 Sample Period 9 Trap Night 5

Date, time traps set 1130 9-18-76 Date, time traps checked 1300 9-19-76

Last toe clip # used on previous day 3054 Field Analyst(s) McGuire

Project RBOSP-83 QA Check Lrm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-12	EUMI	2335	F	A	U	—	DEAD
A-11	EUMI	3032	M	A	29	I	
A-10	PEMA	3055N	F	A	12	I	
A-9	EUMI	2410	M	A	U	—	DEAD
B-6	EUMI	2304	F	A	U	I	DEAD
A-5	PEMA	3101N	M	A	U	—	DEAD

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-5/MIXOPS Grid 4 Sample Period Sept 76-9 Trap Night 1

Date, time traps set 0130 14 Sept 76 Date, time traps checked 0230 15 Sept 76

Last toe clip # used on previous day 0214 Field Analyst(s) Mc Burney/Sibbald

Project RBOSP-83 QA Check Lwn 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUMI	1031	♂	ad	30	I	
C-11	EUQU	4001	♂	ad	46	I	
C-10	EUQU	0435N	♂	ad	51	I	
C-9	EUMI	4004	♀	ad	33	I	
B-6	EUMI	4020	♀	ad	38	I	
C-5	EUQU	4010	♀	ad	53	I	
C-4	EUMI	3020	♀	ad	16	I	
C-3	EUQU	044IN	♀	ad	40	I	Lost Tail
C-2	EUMI	3104	♀	ad	34	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ - Mixed Brush Grid 4 Sample Period Sept 76-9 Trap Night 1

Date, time traps set 1430 9-14-76 Date, time traps checked 1430 9-15-76

Last toe clip # used on previous day 0244 Field Analyst(s) Schiller / McGuire

Project 83-RBOSP (Bag wt 18gm) QA Check bmw 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-13	EUMI	4040	♀	A	32	I	
A-12	EUMI	4030	♂	A	42	I	
A-10	EUMI	0245½	♀	A	36	I	
A-9	EUMI	1423	♂	A	23	I	
A-6	EUMI	3030	♂	A	26	I	
A-3	EUMI	1022	♂	A	26	I	
A-2	PEMA	3005	♀	A	11	I	
C-1	EUMI	1304	♂	A	27	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Mixed Brush Grid 4 Sample Period 9 Trap Night 2

Date, time traps set 1430 9-15-76 Date, time traps checked 1430 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBCSP QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUMI	2003	M	A	—	I	
B-9	PEQU	4010	F	A	44	I	
C-8	EUMI	N0441	F	A	38	I	
B-6	EUMI	1022	M	A	30	I	
B-5	EUMI	3030	M	A	28	I	
C-3	PEQU	0141	M	A	44	I	
C-1	PEMA	3010	M	A	16	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

eet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83-BBOSP-12.10

rid Name PJ/Mixed Brush Grid 4 Sample Period 9 Trap Night 2

ite, time traps set 1430 9-15-76 Date, time traps checked 1430 9-16-76

ist toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-BBOSP QA Check 9-16-76 Lum

pt. c.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
-13	EUQU	4001	M	A	U	I	escaped
-12	EUQU	4030	M	A	37	I	
-7	EUMI	1405	F	A	27	I	
-3	EUMI	1025	M	A	24	I	
-2	EUMI	0251N	F	A	28	I	
-1	PEMA	0252N	F	A	12	I	

Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 2 File No: 83.C.3.1.2.76

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Mixed Brush Grid 4 Sample Period 9 Trap Night 3

Date, time traps set 1400 9-16-76 Date, time traps checked 1400 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-13	EUQU	4001	M	A	35	I	
A-11	EUMI	0253N	M	A	28	I	
A-10	EUMI	0254N	M	A	31	I	
A-8	EUMI	4040	F	A	31	I	
A-5	EUQU	0441	F	A	38	I	
A-3	EUMI	1303	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Mixed Brush Grid 4 Sample Period 9 Trap Night 3

Date, time traps set 1400 9-16-76 Date, time traps checked 14 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) Mc Guire

Project 83 QA Check Lunn 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUQU	4030	M	A	46	I	
C-8	EUMI	1043	M	A	32	I	
B-7	EUMI	1031	M	A	33	I	
C-7	EUMI	1022	M	A	30	I	
B-6	EUQU	1010	F	A	50	I	
E-4	EUQU	0054	F	A	49	I	
B-4	EUMI	4020	F	A	33	I	
E-2	EUMI	1304	F	A	30	I	
C-1	EUMI	044211	F	A	34	I	

*Key taxonomic characters, physical condition of animal, etc.

070/000175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J/[illegible] Grid 4 Sample Period 9 Trap Night 4

Date, time traps set 1300 17 Sep 76 Date, time traps checked 1230 18 Sep 76

Last toe clip # used on previous day 0442 Field Analyst(s) McGuire / Lillie

Project 2605A-83 QA Check bmw 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-13	EUMI	1032	F	A	32	I	
B-8	PEMA	0443D	F	A	24	I	
E-7	EUQU	4010	F	A	49	I	
E-7	PEMA	0444N	M	A	16	I	
G-6	EUMI	0445N	F	A	33	I	
C-5	EUQU	0541	F	A	40	I	
C-2	EUMI	1304	M	A	26	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/MIXED BRUSH Grid 4 Sample Period 9 Trap Night 4

Date, time traps set 1230 9-17-76 Date, time traps checked 1230 9-18-76

Last toe clip # used on previous day 0254 Field Analyst(s) McGuire

Project 83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-13	EUMI	4001	M	A	U	I	DEAD
A-10	EUMI	1043	M	A	30	I	
A-8	EUMI	1403	F	A	33	I	
A-7	EUMI	0255N	F	A	32	I	
A-6	EUMI	0311N	F	A	33	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 12.6.3.1.2.1

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-3/Mixed Brush Grid 4 Sample Period 9 Trap Night 5

Date, time traps set 1430 9-18-76 Date, time traps checked 1430 9-19-76

Last toe clip # used on previous day 0445 Field Analyst(s) McGuire

Project RBOSP-83 QA Check bm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-8	PEMA	0443	F	A	14	I	
B-7	EUGU	4010	F	A	52	I	
B-6	EUQU	0435	M	A	46	I	
C-5	EUMI	3100	M	A	32	I	
C-1	PEMA	0451N	M	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Mixed Brush Grid 4 Sample Period 9 Trap Night 5

Date, time traps set 1430 9-18-76 Date, time traps checked 1430 9-19-76

Last toe clip # used on previous day 0311 Field Analyst(s) McGuire

Project RBOSP-83 QA Check [illegible] 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-8	EUMI	1023	M	A	25	I	
A-6	EUMI	4020	F	A	31	I	
A-2	PEMA	3005	F	A	14	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush North Grid 5 Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1400) Date, time traps checked 9/15/76 (1440)

Last toe clip # used on previous day 4050 Field Analyst(s) DCK

Project 83 31 18 35 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C1	EUMI	1403N	F	A	29	I	poor condition
C2	EUMI	1404N	F	A	30	I	—
C3	EUMI	4300	M	A	29	I	—
C4	EUMI	1004	M	A	33	I	—
B4	PEMA	1405N	F	A	18	I	—
C5	EUMI	3005	M	A	32	I	—
C6	EUMI	4002	F	A	34	I	—
B6	EUMI	1030	F	A	29	I	—
B7	EUMI	0101	F	A	34	I	—
C8	EUMI	4200	M	A	32	I	—
C9	EUMI	0021	M	A	36	I	—
C10	EUMI	3300	F	A	32	I	—
B10	EUMI	0111N	M	A	34	I	—
C11	EUMI	1012	F	A	31	I	—
C12	EUMI	0430	F	A	32	I	—
C13	EUMI	1024	F	A	30	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mud Brook (North) Grid 5 Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1400) Date, time traps checked 9/15/96 14:40

Last toe clip # used on previous day 1057 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Eumi	1034	—	—	—	—	(escaped)
A2	Eumi	2010	M	A	33	I	—
A5	Eumi	1200	F	A	30	I	—
A7	Eumi	1025	F	A	31	I	—
A8	Eumi	4005	F	A	36	I	—
A9	EUMI	0013	F	A	30	I	—
A10	EumI	1052 N	F	A	34	I	—
A11	Eumi	1053 N	M	A	36	I	—
A13	Eumi	1054 N	F	A	31	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. [illegible]

Grid Name Hood Brush Grid 5 Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1400) Date, time traps checked 9/16/76 (1300)

Last toe clip # used on previous day 0111 Field Analyst(s) DCK

Project 83 QA Check krm 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-2	EUMI	4300	M	A	R	I	—
B-4	PEMA	2030	F	A	17	I	
C-5	EUMI	1030	F	A	R	I	
C-6	EUMI	1025	F	A	31	I	
B-7	EUMI	0112	M	A	29	I	
C-9	EUMI	4005	F	A	R	I	
B-10	EUMI	3005	M	A	R	I	
C-11	EUMI	0101	F	A	R	I	
C-12	EUMI	1024	F	A	R	I	
C-13	EUMI	3010	M	A	28	I	
A-13	EUMI	0430	F	A	R	I	
A-12	EUMI	1054	F	A	R	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush Grid 5 Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1440) Date, time traps checked 9/16/76 1300

Last toe clip # used on previous day 0111 Field Analyst(s) NSR

Project 83 QA Check Lum 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Eumi	2010	m	A	50	I	—
A2	Eumi	1055N	M	A	34	I	-
A3	Eumi	1200	m	A	R	I	- dark
A7	Eumi	1004	m	A	R	I	-
A9	Eumi	1052	F	A	R	I	could be 1352
A10	Eumi	4200	m	A	R	I	—
A11	Eumi	2300	F	A	31	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush (North) Grid 5 Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 (1200) Date, time traps checked 9/17/76 (1145)

Last toe clip # used on previous day 0113 Field Analyst(s) clck

Project 83 QA Check brm 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C2	EUMI	0114M	F	A	28	I	—
B4	EUMI	1024	M	A	R	I	—
B5	EUMI	4300	M	A	R	I	—
C5	EUMI	4005	F	A	R	I	—
C6	EUMI	3005	M	A	R	I	—
C7	EUMI	4002	F	A	R	I	—
C8	EUMI	1030	F	A	R	I	—
C9	EUMI	1025	F	A	R	I	—
B10	EUMI	1054	M	A	R	I	—
C11	EUMI	3300	F	A	R	I	—
C12	EUMI	4300	M	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Conif (N) Grid 5 Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 1200 Date, time traps checked 9/17/76 1145

Last toe clip # used on previous day 1055 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	Eumi	1031	M	A	31	I	—
A3	Eumi	2010	M	A	R	I	—
A6	PGMA	1101 N	M	A	15	I	—
A10	Eumi	1052	F	A	R	I	—
A12	Eumi	0430	F	A	R	I	—
C13	Eumi	3400	M	A	31	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush Grid 5 Sample Period 9 Trap Night 1

Date, time traps set 9/17/76 (1145) Date, time traps checked 9/18/76 (1200)

Last toe clip # used on previous day 0111 Field Analyst(s) Lek

Project 83 QA Check Lmm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C1	PEMA	0115N	F	A	16	I	—
C2	EUMI	2011	M	A	R	I	—
B4	EUMI	0121N	M	A	29	I	—
B5	EUMI	4301	M	A	R	I	—
C6	EUMI	1030	F	A	R	I	—
B6	PEMA	0122N	F	A	13	I	—
C8	EUMI	5005	M	A	R	I	—
C9	EUMI	3300	F	A	R	I	—
B10	PEMA	0123N	F	A	12	I	—
C11	EUMI	4200	M	A	R	I	—
C12	EUMI	0124N	F	A	28	I	—
C13	EUQU	0125N	F	A	43	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixedbush Grid 5 Sample Period 9 Trap Night 4

Date, time traps set 9/10/76 1145 Date, time traps checked 9/18/76 1200

Last toe clip # used on previous day 1101 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	1102	M	A	35	I	—
A2	EUMI	1105	F	A	36	I	—
A3	EUMI	9999	M	A	—	Dead	—
A4	EUMI	1041	M	A	32	I	—
A6	EUMI	1052	F	A	R	I	—
A9	EUMI	1053	M	A	R	I	—
A8	EUMI	1099	M	A	R	I	—
A10	EUMI	[illegible]	M	A	28	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.03.1211

Grid Name Mixed Brush Grid 5 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 (1200) Date, time traps checked 9/19/76 (1315)

Last toe clip # used on previous day 0131 Field Analyst(s) DCK

Project 83 QA Check Lum 9-19-76

Capt. loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C1	EUMI	1031	M	A	R	I	-
C2	EUMI	0114	F	A	R	I	-
B4	EUMI	4300	M	A	R	I	-
B5	EUMI	0112	M	A	R	I	-
C5	EUMI	0132N	F	A	31	I	-
C9	EUMI	1030	F	A	R	I	-
C11	EUMI	1024	F	A	R	I	-
C13	EUMI	1054	M	A	R	I	-

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET (A-8)

Grid Name Mixed bowl Grid 5 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 1200 Date, time traps checked 9/19/76 1315

Last toe clip # used on previous day 1105 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-19-76 11

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A2	EUMI	1201	M	A	32	I	—
A3	EUMI	3040	M	A	34	I	-
A4	EUMI	6798	F	A	—	Dead	—
A5	EUMI	4200	M	A	R	I	—
A6	PEMA	1101	M	A	R	I	—
A7	PEMA	0122	F	A	R	I	—
A9	EUMI	1052	F	A	R	I	+blo
A10	EUMI	1025	F	A	R	I	poor condition
A12	EUMI	3400	M	A	R	I	
A13	EUMI	3300	F	A	29	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid C6 Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1700) Date, time traps checked 1820 9/15/7

Last toe clip # used on previous day 1055 Field Analyst(s) NSR, DCK, RCS

Project 83 QA Check brm 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	1023	m	A	28	I	
A2	EUQU	1033	F	A	45	I	
A4	EUMI	1403	m	A	32	I	
A6	EUMI	1101N	m	A	33	I	
A5	EUMI	1102N	F	A	17	I	
A3	EUMI	1103N	F	A	—	I	escaped before wt
A9	PEMA	1104N	F	A	13	I	
A7	PEMA	1105N	F	A	13	I	
A11	PEMA	2080	M	A	13	I	hard to tell
A12	EUMI	1040	m	A	31	I	
C13	PEMA	1201N	m	A	14	I	
C15	PEMA	1202N	m	A	20	I	bor fly
C12	EUMI	1055	F	A	32	I	
C11	PEMA	F303N	F	A	16	I	
C10	PEMA	1204N	m	A	21	I	
C8	EUQU	1041	m	A	47	—	
C7	EUMI	4002	m	A	36	I	
C6	EUQU	1031	m	A	46	I	
C4	EUQU	1205N	F	A	56	I	
C3	PEMA	1(illegible)N	m	A	15	I	
C2	EUMI	1343	m	A	24	I	1 + 3 also 0043
C1	EUMI	1302N	m	A	41 gg	I	new 1343
B4	EUMI	1304N	M	A	28	I	—
B6	PEMA	1305N	M	A	16	I	—
B7	EUMI	1401N	F	A	29	I	—
B8	EUMI	3200	M	A	32	I	—
B9	EUMI	0400	M	A	30	I	—
B10	EUMI	1402N	M	A	32	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1930) Date, time traps checked 9/16/76 (1645)

Last toe clip # used on previous day 1402 Field Analyst(s) DCK

Project 83 QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	0245N	F	A	14	I	—
A2	EUQU	1033	F	A	R	I	—
A3	EUMI	1304	M	A	R	I	—
A6	EUMI	0251N	M	A	29	I	—
B6	EUMI	1103	F	A	R	I	—
B7	EUQU	0252N	F	A	44	I	—
A7	EUQU	1041	M	A	R	I	—
A8	PEMA	2010	M	A	16	I	—
B8	PEMA	0253N	M	A	14	I	—
A9	EUMI	0411	M	A	34	I	—
B10	EUMI	1045	M	A	30	I	—
A11	EUQU	1205	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: 85-5-15-12

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ-Sage Grid 6 Sample Period 9 Trap Night 2

Date, time traps set 9/14/86 (1930) Date, time traps checked 9/15/86 1645

Last toe clip # used on previous day 1402 Field Analyst(s) NSR

Project 83 QA Check [signature] 9-16-86

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C3	EUMI	1101	M	A	R	I	-
C4	PEMA	1405N	M	A	18	I	-
C5	PEMA	1204	M	A	R	I	-
C6	EUQU	1031	M	A	R	I	-
C8	EUMI	1035	F	A	R	I	-
C10	PEMA	0111N	M	A	17	I	-
C11	EUMI	2200	M	A	R	I	-
C13	PEMA	6666	F	A	-	Dead	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 82.C.3.7.8.12

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P.J./Sage Grid 6 Sample Period 9 Trap Night 3

Date, time traps set 16 Sept 1730 Date, time traps checked 17 Sept 1500

Last toe clip # used on previous day 0111/0253 Field Analyst(s) Sam

Project 83 QA Check Lum 9-17-82

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-4	EUQU	1041	m	A	U	I	
C-5	EUQU	0254	F	A	49	I	
C-6	PEMA	1405	m	A	U	I	
C-7	EUQU	1031	m	A	U	I	
C-8	PEMA	0255	m	A	17	I	
C-10	EUQU	0311	F	A	52	I	
B-8	PEMA	0253	M	A	U	I	
B-7	EUQU	0252	F	A	U	I	
B-4	PEMA	0312	F	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid O Sample Period Sept 76-9 Trap Night 1

Date, time traps set 1600 9-14-76 Date, time traps checked 16 9-15-76

Last toe clip # used on previous day 2053 Field Analyst(s) Schiller/McGuire

Project 83 RBOSP QA Check Lurin 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M1	PEMA	2011	♀	A	13	I	
M2	PEMA	1235	♂	A	18	I	
M8	PEMA	2054N	♂	A	18	I	
L13	EUMI	1232	♀	A	26	I	
L8	PEMA	2055N	♀	A	13	I	
L6	PEMA	2101N	♂	A	12	I	
L2	EUMI	2304	♂	A	34	I	
K1	PEMA	1345	♂	A	13	I	
K8	EUMI	1241	♀	A	33	I	
J9	EUMI	3001	♂	A	14	I	
J2	EUMI	1312	♂	A	34	I	
J1	EUMI	0343	♀	A	32	I	
H-1	PEMA	1123	♂	A	13	I	
H-2	EUMI	1315	♂	A	32	I	
H-3	PEMA	2102N	♂	A	19	I	
H-11	PEMA	1135	♂	A	11	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name SAGEBRUSH Grid ID _____ Sample Period Sept 76-9 Trap Night 1

Date, time traps set 1500 14 Sept 76 Date, time traps checked 1600 15 Sept 76

Last toe clip # used on previous day 3015 Field Analyst(s) McInnis / Sublette

Project RBOSP-83 QA Check bmw 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	3021N	♂	ad	16	I	
A-3	EUMI	2033	♀	ad	33	I	
A-10	PEMA	1222	♀	ad	16	I	dead in Trap
A-12	EUMI	0030	♂	ad	28	I	
A-13	EUQU	3022N	♂	ad	46	I	on edge / PJ Veg type
B-11	EUMI	0211	♂	ad	26	I	
B-10	PEMA	1225	♀	ad	—	I	
B-1	EUMI	1122	♀	ad	32	I	
B-2	PEMA	1453	♀	ad	12	I	
B-3	PEMA	1142	♂	ad	19	I	
B-4	EUMI	2114	♀	ad	36	I	
B-8	PEMA	1454	♂	ad	16	I	
B-10	PEMA	3023N	♂	ad	16	I	
B-11	EUMI	2111	♀	ad	33	I	
B-13	PEMA	1154	♀	ad	16	I	
D-13	EUMI	1005	♂	ad	33	I	
D-12	EUMI	3024N	♂	ad	36	I	
D-11	EUMI	1223	♀	ad	30	I	
D-10	PEMA	3025N	♀	ad	18	I	
E-16	EUMI	3050	♂	ad	30	I	
E-9	PEMA	1154	♂	ad	11	I	
E-7	EUMI	0305	♀	ad	33	I	
E-6	EUMI	3400	♀	ad	28	I	
D-5	EUMI	1214	♀	ad	34	I	
E-5	EUMI	2455	♀	ad	31	I	
D-1	PEMA	2052	♀	ad	10	I	grub infested
F-3	PEMA	1334	♀	ad	14	I	
F-4	PEMA	1145	♀	ad	16	I	
F-5	EUMI	0352	♀	ad	33	I	
F-6	EUMI	2032	♀	ad	34	I	
F-7	EUMI	0412	♀	ad	34	I	

*Key taxonomic characters, physical condition of animal, etc.

Sheet 3 of 5 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name SAGE Brush Grid 0 Sample Period 9 Trap Night 1

Date, time traps set 1500 14 Sep 76 Date, time traps checked 1600 15 Sep 76

Last toe clip # used on previous day 3015 Field Analyst(s) McGuire

Project RBOSP-83 QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-8	EUMI	0123	♀	Ad	34	I	
F-12	PEMA	1143	♂	Ad	13	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 2

Date, time traps set 1500 9-15-76 Date, time traps checked 1500/9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBOSP QA Check Lmw 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M2	PEMA same trap!	—	—	—	—	—	first escaped
M2	PEMA	2103N	F	A	8	I	
M3	SPLA	2104N	M	A	128	I	
M4	EUMI	1333	M	A	33	I	
M8	PEMA	2105N	M	A	13	I	
M10	PEMA	2201N	M	A	13	I	
M11	EUMI	1243	F	A	28	I	
M13	PEMA	0033	M	A	15	I	
L13	PEMA	2202N	M	A	15	I	
L12	EUMI	1324	M	A	24	I	
L4	EUMI	1241	F	A	31	I	
L1	EUMI	2304	M	A	25	I	
K2	PEMA	2203N	F	A	16	I	
K3	PEMA	2204N	F	A	16	I	
K11	EUMI	1232	F	A	23	I	
K12	EUMI	2150	M	A	30	I	
J6	EUMI	0013	M	A	35	I	
J1	EUMI	0150	M	A	31	I	
H-1	EUMI	2150	F	A	28	I	
H-2	EUMI	2023	F	A	31	I	
H-4	EUMI	1312	M	A	30	I	
I-4	PEMA	2102	M	A	18	I	
H-5	EUMI	1(12)41	F	A	32	I	
H-7							

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 2

Date, time traps set 1500 9-15-76 Date, time traps checked 1500 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBOSP QA Check Lynn 9-16-76

Capt. Loc..	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	2033	F	A	28	I	
B-8	PEMA	1225	F	A	14	I	
C-2	EUMI	3031N	M	A	28	I	
C-3	PEMA	1314	F	A	14	I	Dead in Trap
C-8	PEMA	1054	M	A	13	I	
D-13	PEMA	3032N	F	A	16	I	
D-12	EUMI	1005	M	A	32	I	
D-10	EUMI	1223	F	A	28	I	
E-9	EUMI	1152	M	A	30	I	
D-8	PEMA	3025	F	A	17	I	
E-8	EUMI	3400	F	A	27	I	
F-7	EUMI	1214	F	A	29	I	
D-5	PEMA	3033N	F	A	18	I	
D-1	EUMI	1315	M	A	29	I	
F-3	EUMI	0344	F	A	28	I	
G-5	EUMI	0305	F	A	29	I	
F-6	EUMI	1035	M	A	29	I	
G-6	EUMI	2032	F	A	26	I	
F-9	EUMI	2305	F	A	30	I	
F-10	EUMI	3050	M	A	29	I	
F-12	PEMA	1143	M	A	12	I	
F-13	EUMI	0221	M	A	32	I	
H-11	PEMA	1135	M	A	10	I	
H-10	EUMI	1305	F	A	32	I	
I-9	EUMI	0440	M	A	30	I	
H-9	PEMA	3034N	F	A	15	I	
I-8	PEMA	3005	F	A	10	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.6.3.1.3.17

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 3

Date, time traps set 1530 9-16-76 Date, time traps checked 1530 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check bmw 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-11	EUMI	2111	M	A	28	I	
A-12	EUMI	4031N	F	A	42	I	P-J edge
A-8	PEMA	1454	M	A	14	I	
A-10	PEMA	1225	F	A	16	I	
A-6	PEMA	3021	M	A	16	I	
A-2	EUMI	2033	M	A	35	I	
A-1	EUMI	0151	M	A	30	I	
A-3	EUMI	2023	F	A	—	I	
A-4	EUMI	0453	M	A	30	I	
B-13	EUMI	2112	F	A	35	I	
B-12	PEMA	3032	F	A	14	I	
B-10	EUMI	2125	F	A	28	I	
B-9	EUMI	3400	F	A	27	I	
B-8	PEMA	1143	F	A	11	I	
B-7	PEMA	4032N	F	A	15	I	
B-6	EUMI	0305	F	A	34	I	
B-5	EUMI	1214	F	A	30	I	
D-5	PEMA	1442	M	A	19	I	
D-4	PEMA	4033N	M	A	15	I	
D-3	EUMI	2305	F	A	33	I	
D-2	EUMI	1315	M	A	28	I	
D-1	EUMI	2155	F	A	28	I	
F-1	PEMA	4034N	F	A	14	I	
F-7	EUMI	4035N	M	A	32	I	
F-10	EUMI	4041N	F	A	30	I	
F-12	EUMI	3024	M	A	30	I	
F-13	EUMI	1005	M	A	31	I	
H-11	PEMA	0033	M	A	18	I	
H-4	PEMA	2102	M	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 51.C.5.1.2.17

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 3

Date, time traps set 1530 9-16-76 Date, time traps checked 1530 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lorm 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-3	PEMA	2205N	m	A	17	I	
M-4	EUMI	3110N	m	A	28	I	
M-11	EUMI	1241	F	A	28	I	
L-12	EUMI	1232	F	A	31	I	
L-13	PEMA	3120N	F	A	11	I	
L-11	PEMA	2230	m	A	11	I	
L-4	PEMA	3130N	F	A	14	I	Bot fly
L-2	EUMI	1431	F	A	31	I	
K-1	PEMA	3140N	m	A	11	I	
K-2	PEMA	2402	m	A	12	I	
K-3	PEMA	2204	F	A	14	I	
K-4	PEMA	2101	m	A	11	I	
K-8	EUMI	0133	m	A	32	I	
K-11	PEMA	3150N	F	A	21	I	BIG!
J-10	PEMA	3210N	m	A	20	I	
I-10	SPLA	2104	m	A	129	I	
I-9	PEMA	3015	F	A	4	I	Dead
I-8	PEMA	1154	F	A	11	I	
I-5	EUMI	1312	m	A	32	I	
J-5	EUMI	2032	F	A	28	I	
J-2	PEMA	3220N	F	A	17	I	
H-2	PEMA	3230N	F	A	—	I	escaped before weighing
H-3	EUMI	2145	m	A	31	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 File No: 83.C.3.1.3.17

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 4

Date, time traps set 1500 9-17-76 Date, time traps checked 1300 9-18-76

Last toe clip # used on previous day 3230 Field Analyst(s) McGuire

Project 83 QA Check Burr 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
N-4	PEMA	3240N	F	A	12	I	
N-6	PEMA	3250N	M	A	15	I	
N-8	PEMA	3310N	M	A	16	I	
N-10	EUMI	1241	F	A	21	I	
L-12	EUMI	1324	M	A	35	I	
L-8	SPLA	2104	M	A	124	I	
L-4	EUMI	1302	M	A	34	I	
L-1	EUMI	2304	M	A	30	I	
K-3	PEMA	2204	F	A	U	I	DEAD
K-11	EUMI	2200	M	A	10	I	
I-9	PEMA	3034	F	A	14	I	
I-5	EUMI	1131	F	A	—	I	escaped before weighing
I-4	PEMA	3320N	F	A	14	I	
I-2	EUMI	0151	M	A	28	I	
H-1	PEMA	1123	M	A	12	I	
H-4	EUMI	3330N	M	A	U	I	DEAD

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: [illegible]

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name SAGEBRUSH Grid D Sample Period 9 Trap Night 4

Date, time traps set 1440 17 Sep 76 Date, time traps checked 1300 18 Sep 76

Last toe clip # used on previous day 3034 Field Analyst(s) McGuire/Fabillen

Project TROSP-83 QA Check bmw 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B-6	EUMI	2111	F	A	27	I	
C-2	EUMI	0440	M	A	32	I	
C-4	PEMA	1442	M	A	18	I	
C-8	PEMA	4042N	M	A	18	I	
C-13	EUMI	0014	F	A	—	I	
D-12	EUMI	3211	M	A	32	I	
D-8	PEMA	1225	F	A	12	I	
E-7	PEMA	4043N	F	A	11	I	Dead in Trap.
E-6	PEMA	4032	F	A	—	I	" " "
D-5	EUMI	1122	F	A	34	I	
E-5	EUMI	0352	F	A	37	I	
D-2	EUMI	2155	F	A	28	I	
D-1	EUMI	2023	F	A	28	I	
E-3	PEMA	4033	M	A	12	I	
E-5	PEMA	4044N	F	A	13	I	
E-7	PEMA	2102	M	A	—	I	Dead in Trap
E-9	EUMI	1223	F	A	29	I	
F-12	PEMA	1135	M	A	12	I	
F-13	EUMI	1232	F	A	36	I	
H-11	PEMA	0333	M	A	13	I	Dead in trap
H-11	EUMI	1242	F	A	29	I	" " "

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 5

Date, time traps set 1530 9-18-76 Date, time traps checked 1530 9-19-76

Last toe clip # used on previous day 4044 Field Analyst(s) McGuire

Project RBOSP-83 QA Check [illegible] 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	EUMI	4045N	M	A	29	I	
A-12	EUQU	2041	M	A	48	F	P5 edge
C-2	EUMI	2305	F	A	27	I	
C-4	EUMI	1312	M	A	32	I	
C-8	PEMA	1454	M	A	16	I	
E-9	EUMI	3050	M	A	35	I	
D-7	EUMI	0030	M	A	—	F	
F-3	EUMI	0344	F	A	38	I	
F-7	EUMI	1214	F	A	28	I	
F-13	PEMA	4051N	M	A	16	I	
H-10	EUMI	1153	M	A	35	I	
H-7	EUMI	1333	M	A	29	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5.1.28.17

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Sagebrush Grid D Sample Period 9 Trap Night 5

Date, time traps set 1530 9-18-76 Date, time traps checked 1530 9-19-76

Last toe clip # used on previous day 3330 Field Analyst(s) McGuire

Project RBOSP-83 QA Check bm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M2	EUMI	3346N	M	A	36	I	
M4	PEMA	3350N	M	A	14	I	
M8	PEMA	2201	M	A	12	I	
M10	SPLA	2104	M	A	128	I	
L12	PEMA	3410N	F	A	15	I	
L11	EUMI	1243	F	A	29	I	
L4	EUMI	2114	F	A	30	I	
K1	PEMA	3420N	F	A	13	I	
K3	PEMA	3401	F	A	12	I	
K4	EUMI	3430N	F	A	32	I	
K11	PEMA	3440N	F	A	14	I	
J13	EUMI	1324	M	A	35	I	
I8	EUMI	0123	F	A	41	I	escaped
H-4	PEMA	3330	F	A	11	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name MIXED BRUSH (S) Grid E Sample Period 9 Trap Night 1

Date, time traps set 14 Sept 0830 Date, time traps checked 15 Sept 76 0830

Last toe clip # used on previous day on list Field Analyst(s) Sanz

Project 83 QA Check Mrm 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-1	EUMI	3111	F	A	27	I	
K-1	PEMA	3054	m	A	18	I	
L-1	PEMA	3021	m	A	19	I	
M-3	PEMA	3112	F	A	16	I	
L-4	PEMA	3113	F	A	14	I	
K-2	EUMI	3114	m	A	26	I	
K-3	PEMA	2133	m	A	15	I	
J-5	EUMI	3053	m	A	33	I	
H-2	PEMA	2023	F	A	17	A	pregnant
H-4	EUMI	2041	F	A	35	I	
D-2	PEMA	3115	F	A	14	I	
D-3	EUMI	3121	F	A	34	I	
C-4	EUMI	4301	F	A	30	I	
C-2	EUMI	3204	m	A	27	I	
B-6	LACU	3122	m	A	20	I	
A-4	PEMA	3123	F	A	16	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush (s) Grid F Sample Period 9 Trap Night 1

Date, time traps set 14 Sep 0830 Date, time traps checked 15 Sep 0830

Last toe clip # used on previous day on list Field Analyst(s) L. Martin

Project 83 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-13	PEMA	0433	♂	A	18	I	
L-11	EUMI	4100	♀	A	32	I	dead?
L-12	EUMI	0430	♂	A	30	I	
J-12	PEMA	1325	♂	A	14	I	
H-9	EUMI	4051	♀	A	28	I	in torpor
G-8	EUMI	4052	♂	A	25	I	in torpor

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush(s) Grid E Sample Period 9 Trap Night 2

Date, time traps set 15 Sep 0830 Date, time traps checked 16 Sep 1000

Last toe clip # used on previous day 4052/3122 Field Analyst(s) Sanz

Project 83 QA Check Lum 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-1	EUMI	3123	m	A	28	I	
K-1	PEMA	142?	m	A	17	I	last foot missing
L-1	PEMA	3124	m	A	U	D	
M-2	EUMI	3125	m	A	26	I	exposure
M-3	PEMA	3002	m	A	U	D	
K-3	EUMI	3111	F	A	U	D	
I-5	EUMI	2041	F	A	U	D	
I-4	PEMA	3131	F	A	15	I	
H-2	PEMA	2023	F	A	U	I	exposure
H-3	PEMA	3132	m	A	16	I	
G-4	EUMI	3133	m	A	24	I	
F-3	EUMI	3121	F	A	U	I	
D-7	EUMI	3134	F	A	29	I	
[illegible]-3	EUMI	3135	m	A	32	I	
B-4	EUMI	3141	F	A	27	I	
B-6	EUMI	3204	m	A	U	I	
A-3	EUMI	4301	F	A	U	I	exposure

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.03.02.10

Grid Name Mixed Brush(s) Grid E Sample Period 9 Trap Night 2

Date, time traps set 15 Sep 0830 Date, time traps checked 16 Sep 1000

Last toe clip # used on previous day 4053/3122 Field Analyst(s) L. Martin

Project 83 QA Check Sum 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-13	PEMA	4053	♀	A	18	I	
L-13	PEMA	3302	♂	A	12	I	
M-10	EUMI	3045	♀	A	30	I	
L-11	PEMA	2201	♀	A	11	I	
K-11	PEMA	2350	♀	A	14	A	pregnant
J-12	EUMI	0430	♀	A	41	I	definitely female
E-9	EUMI	3053	♂	A	29	I	
G-12	PEMA	3212	♂	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush (s) Grid E Sample Period 9 Trap Night 3

Date, time traps set 16 Sept 76 1200 Date, time traps checked 17 Sept 76 900

Last toe clip # used on previous day 3141 Field Analyst(s) Sumy

Project 83 QA Check Sumy 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
K-1	PEMA	142?	m	A	U	I	last foot missing
M-2	PEMA	3142	m	A	16	I	
L-3	PEMA	1122	F	A	16	I	
K-2	PEMA	3054	m	A	U	I	
J-2	PEMA	3143	F	A	15	I	
H-3	PEMA	3131	F	A	U	I	
J-3	EUMI	3121	F	A	U	I	
I-4	PEMA	(12)243	m	A	16	I	two didgits missing on firs
H-6	PEMA	3144	F	A	17	I	
E-6	EUMI	3145	F	A	26	I	
D-7	PEMA	4120	m	A	17	I	
C-6	EUMI	4044	m	A	28	I	
C-4	EUMI	3053	m	A	U	I	
B-6	LACU	3122	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5.1.2.18

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush (S) Grid E Sample Period 9 Trap Night 3

Date, time traps set 16 Sep 1000 Date, time traps checked 17 Sep 0830

Last toe clip # used on previous day 4054 Field Analyst(s) L. Martin

Project 83 QA Check lrm 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-8	EUMI	4054	♂	A	U	D	
A-13	PEMA	4055	♂	A	12	I	
J-13	PEMA	4102	♂	A	12	I	
L-13	PEMA	1437	♀	A	14	I	
L-8	EUMI	3015	♂	A	U	I	
K-11	EUMI	4103	♂	A	29	I	
K-10	EUMI	4104	♂	A	25	I	in torpor?
I-8	PEMA	4105	♂	A	16	I	
J-12	PEMA	1325	♂	A	U	I	
H-10	EUMI	3134	♀	A	U	I	in torpor
H-9	EUMI	4051	♀	A	U	D	
E-8	EUMI	3204	♂	A	U	I	
C-12	PEMA	3210	♀	A	13	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.0.3.1.0.2.A

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name MIXED BRUSH(S) Grid E Sample Period 9 Trap Night 4

Date, time traps set 17 Sept '76 0900 Date, time traps checked 18 Sept '76 0900

Last toe clip # used on previous day 3145 Field Analyst(s) Sam Z

Project 83 QA Check Jum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-1	PEMA	142?	m	A	U	I	missing last ~~foot~~
M-2	PEMA	3112	F	A	U	D	
L-3	PEMA	3113	F	A	U	D	
K-2	EUMI	3123	m	A	U	I	
K-3	PEMA	2133	m	A	U	D	
K-2	EUMI	3121	F	A	U	I	exposure
E-7	PEMA	3211	m	A	19	I	
E-6	EUMI	3145	F	A	U	I	
D-4	PEMA	3212	m	A	18	I	
D-7	PEMA	4130	F	A	17	I	
C-6	PEMA	4120	m	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.5.1.2.18

Sheet 2 of 2

SMALL ~~MAMMAL~~ LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush(S) Grid F Sample Period 9 Trap Night 4

Date, time traps set 17 Sep 0900 Date, time traps checked 18 Sep 0900

Last toe clip # used on previous day 4105 Field Analyst(s) L. Martin

Project 83 QA Check bm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-13	EUMI	4201	F	A	23	I	in torpor
K-13	EUMI	4202	F	A	29	I	
L-13	EUMI	4203	M	A	26	I	in torpor
M-10	PEMA	2201	F	A	u	I	
L-?	EUMI	3125	M	A	u	I	in torpor
L-11	PEMA	0413	M	A	u	I	
L-12	PEMA	4204	M	A	13	I	
K-11	EUMI	4103	F	A	u	D	definitly female
I-?	EUMI	3053	M	A	u	U	
J-12	PEMA	2053	F	A	u	A	pregnant
F-9	EUMI	4205	M	A	31	I	
F-11	PEMA	0423	M	A	u	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name MIXED BRUSH (S) Grid E Sample Period 9 Trap Night 5

Date, time traps set 16 Sept. Date, time traps checked 17 Sept. 900

Last toe clip # used on previous day — Field Analyst(s) Sams

Project 83 QA Check bw 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M-2	EUMI	0400	F	A	23	I	
L-3	EUMI	3221	m	A	U	D	
K-2	EUMI	3222	m	A	26	I	
K-3	PEMA	3223	F	A	16	I	
J-7	EUMI	3045	F	A	25	I	extreme exposure
I-5	PEMA	(12)243	m	A	U	I	two digits of 1st foot
I-4	EUMI	3114	m	A	U	I	
J-4	EUMI	3121	F	A	U	I	extreme exposure
H-3	PEMA	3224	m	A	18	I	
E-7	PEMA	4130	F	A	U	I	
E-6	EUMI	3225	m	A	28	I	
D-2	PEMA	3311	M	A	17	I	
D-4	EUMI	3312	m	A	31	I	
D-7	PEMA	3405	F	A	U	D	
C-6	EUMI	4043	m	A	30	I	
B-4	EUMI	3141	F	A	U	I	
A-3	PEMA	3123	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

File No: 75.03.12.15

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Mixed Brush(s) Grid E Sample Period 9 Trap Night 5

Date, time traps set 18 Sep 0900 Date, time traps checked 19 Sep 0900

Last toe clip # used on previous day 4205 Field Analyst(s) L. Martin

Project 83 QA Check bm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-8	PEMA	4122	M	A	U	D	
J-11	FUMI	4111	F	A	28	I	
H-9	PEMA	1322	M	A	13	I	
E-9	PEMA	4112	F	A	14	I	
F-11	FUMI	1255	M	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas-fir Grid F Sample Period 9 Trap Night 1

Date, time traps set 14 Sept 76 1100 Date, time traps checked 15 Sept 76 1100

Last toe clip # used on previous day 1301/0632 · Field Analyst(s) Sam

Project 83 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-6	EUQU	1103	F	A	52	I	
J-7	CLGA	0153	F	A	14	I	
I-9	EUMI	0154	F	A	38	I	
H-10	EUMI	1101	F	A	32	I	exposure
H-13	CLGA	0155	F	A	16	A	lactating
F-9	EUMI	0211	M	A	26	A	dist. testes
H-8	EUMI	1014	F	A	23	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 9 Trap Night 1

Date, time traps set 14 Sep 1100 Date, time traps checked 15 Sep 1100

Last toe clip # used on previous day 13-01052 Field Analyst(s) L. Martin

Project 83 QA Check bm 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-3	CLGA	1302	♂	A	U	I	dead
H-1	EUQU	1304	♂	A	50	I	
F-1	EUQU	1305	♀	A	44	I	
F-3	CLGA	1401	♂	A	U	I	dead
E-7	CLGA	1403	♂	A	12	I	
E-5	CLGA	0245	♂	A	12	I	
F-6	EUQU	3400	♀	A	43	I	
G-6	EUMI	1012	♂	A	33	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas-fir Grid F Sample Period 9 Trap Night 2

Date, time traps set 15 Sept 75 1100 Date, time traps checked 16 Sept 75 1200

Last toe clip # used on previous day 0211/0245 Field Analyst(s) Sam2

Project 83 QA Check Sam 9-16-75

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-6	EUQU	1103	F	A	U	I	
I-9	CLGA	0153	F	A	U	D	
H-12	CLGA	0155	F	A	U	I	
D-9	CLGA	0212	F	A	13	I	
E-8	PEMA	1202	m	A	17	I	
F-9	EUMI	1014	F	A	U	I	
G-10	CLGA	0213	F	A	U	D	
G-9	EUMI	0154	F	A	U	I	exposure

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

FILE NO: 85.0.2.7.1

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 9 Trap Night 2

Date, time traps set 15 Sep 1100 Date, time traps checked 16 Sep 1200

Last toe clip # used on previous day 0245/0211 Field Analyst(s) L. Martin

Project 83 QA Check Sum 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-2	EU QU	0251	♀	A	44	I	
E-4	EU QU	3400	♀	A	u	I	
D-4	EU QU	0252	♂	A	48	I	
D-7	EU QU	0253	♀	A	54	u	possibly pregnant
E-7	CLGA	1402	♂	A	u	I	
F-6	EUME	1012	♂	A	u	I	is torpor
H-6	EUMI	0211	♂	A	u	I	
I-7	PEMA	0251	♀	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas - fir Grid F Sample Period 9 Trap Night 3

Date, time traps set 16 Sept 76 1100 Date, time traps checked 17 Sept 76 1000

Last toe clip # used on previous day 0213 Field Analyst(s) Sam

Project 83 QA Check Sam 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-4	CLGA	0214	F	A	U	D	
J-5	PEMA	0250	M	A	18	I	
J-6	PEMA	0215	F	A	18	I	
J-8	CLGA	0221	F	A	14	I	
F-12	CLGA	0222	F	A	15	I	
F-11	CLGA	0223	M	A	14	I	exposure
E-9	EUMI	1014	F	A	U	I	exposure
D-9	PEMA	0224	F	A	17	I	
H-9	PEMA	0225	F	A	19	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 82.C.5.1.8.19

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 9 Trap Night 3

Date, time traps set 16 Sep 1100 Date, time traps checked 17 Sep 1000

Last toe clip # used on previous day 0254 Field Analyst(s) L. Martin

Project P3 QA Check Lum 9-17-82

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-1	EUQU	0255	♀	A	45	I	
F-2	EUQU	0251	♀	A	u	I	
D-6	EUQU	3402	♀	A	u	I	
H-5	EUMI	0311	♂	A	30	I	
H-6	EUMI	0312	♀	A	33	I	
I-7	EUQU	1103	♀	A	u	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 23.5.7.18.17

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas-fir Grid F Sample Period 9 Trap Night 4

Date, time traps set 17 Sept. '76 1000 Date, time traps checked 18 Sept. '76 1100

Last Toe clip # used on previous day 0224 Field Analyst(s) Sam

Project 83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-5	PEMA	0250	m	A	U	I	
J-6	EUQU	1103	F	A	U	D	
F-12	CLGA	0155	F	A	U	D	
D-9	EUQU	0253	F	A	U	I	exposure
F-8	PEMA	0235	m	A	16	I	
H-8	EUQU	0231	F	A	47	I	
H-9	PEMA	0225	F	A	U	I	
I-8	PEMA	0232	m	A	17	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83.d.5.1.a.15

Grid Name Douglas Fir Grid F Sample Period 9 Trap Night 4

Date, time traps set 17 Sep 1100 Date, time traps checked 18 Sep 1100

Last toe clip # used on previous day 0313 Field Analyst(s) L. Martin

Project 83 QA Check bmw 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-3	EUMI	0313	F	A	32	I	
E-3	EUQU	0255	F	A	u	I	
F-2	EUQU	0251	F	A	u	I	
D-6	EUMI	1012	m	A	u	I	
E-7	CLGA	1402	m	A	u	D	
F5	EUQU	0252	m	A	u	I	
F-6	CLGA	0314	m	A	u	D	
H-5	EUMI	0311	m	A	u	I	
I-5	EUQU	3400	F	A	u	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.c.5.1.3.1

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas-fir Grid F Sample Period 9 Trap Night 5

Date, time traps set 18 September, 1976 Date, time traps checked 19 Sept 76 1100

Last toe clip # used on previous day _____ Field Analyst(s) Sumy

Project 83 QA Check Lm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-5	PEMA	0254	M	A	U	D	
J-8	CLGA	0241	F	A	U	D	
I-8	CLGA	0242	F	A	U	D	
E-8	PEMA	0225	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: 13-C-1-19

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Douglas Fir Grid F Sample Period 9 Trap Night 5

Date, time traps set 18 Sep 1100 Date, time traps checked 19 Sep 1100

Last toe clip # used on previous day 0314 Field Analyst(s) L. Martin

Project 83 QA Check [illegible] 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-2	EUMI	0313	F	A	u	I	
F-5	EUPU	0252	m	A	u	I	
F-6	EUMI	0133	m	A	29	I	
H-5	EUMI	0312	F	A	u	I	
H-6	EUMI	1012	m	A	u	I	in torpor

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.5.1.2.80

Sheet 1 of 1 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid 5 Sample Period 9 Trap Night 1

Date, time traps set 14 Sep 1300 Date, time traps checked 15 Sep 1630

Last toe clip # used on previous day 1304/0123 Field Analyst(s) L. Martin

Project 83 QA Check lmm 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-5	CLGA	1305	♂	A	U	I	dead
D-8	EUMI	3010	♂	A	30	I	
F-11	PEMA	1401	♀	A	16	I	
F-12	EUQU	1402	♂	A	51	I	
H-13	EUMI	0124	♂	A	38	I	
H-11	EUMI	3005	♂	A	26	I	
J-10	PEMA	2020	♂	A	15	I	
J-8	CLGA	0125	♂	A	11	I	
I-1	EUMI	1044	♀	A	30	I	
I-8	EUQU	0131	♂	A	43	I	
H-9	PEMA	2003	♀	A	17	I	
H-7	CLGA	0132	♀	A	U	I	escaped before weighing
H-2	CLGA	0133	♂	A	14	I	
G-4	PEMA	1105	♀	A	15	I	
G-8	PEMA	0134	♂	A	12	I	
G-10	PEMA	3003	♀	A	13	I	
F-9	CLGA	0135	♀	A	11	I	
E-5	PEMA	0141	♀	A	13	I	
E-8	PEMA	0142	♂	A	13	I	

*Key taxonomic characters, physical condition of animal, etc.

File No: 83.C.5.1.2.14
File No: 83.C.5.1.2.60

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name ASPEN Grid G Sample Period 9 Trap Night 2

Date, time traps set 15 Sept 1976 1630 Date, time traps checked 16 Sept 1976 1500

Last toe clip # used on previous day 0142 Field Analyst(s) Sumy

Project 83 QA Check Sumy 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-1	CLGA	0245	m	A	U	D	
H-4	EUMI	0251	F	A	25	I	
I-5	EUMI	1044	F	A	U	I	
H-6	PEMA	3100	m	A	18	I	
H-5	CLGA	0252	M	A	U	D	
G-7	PEMA	3004	M	A	16	I	exposure
E-7	EUMI	3010	F	A	U	I	definitely female
E-6	EUMI	1043	M	A	29	I	
E-5	PEMA	1023	m	A	15	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: [illegible]

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 9 Trap Night 2

Date, time traps set 15 Sep 1630 Date, time traps checked 16 Sep 1500

Last toe clip # used on previous day 0143 Field Analyst(s) L. Martin

Project 83 QA Check Lum 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-7	PEMA	1031	♂	A	14	I	
D10	CLGA	0143	♀	A	12	I	
F-13	PEMA	1401	♀	A	u	I	
H-13	EUMH	0124	♂	A	u	I	
G-10	CLGA	0145	♂	A	u	D	dead
J-10	CLGA	0151	♂	A	10	I	
I-8	PEMA	0152	♂	A	14	I	
I-9	EUQU	0131	♂	A	u	I	
H-9	CLGA	4002	♂	A	u	D	dead
G-9	PEMA	3003	♀	A	u	I	
F-8	PEMA	2003	♀	A	u	I	
F-8	PEMA	0153	♀	A	13	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 8.0.5.1.2.80

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name ASPEN Grid G Sample Period 9 Trap Night 3

Date, time traps set 16 Sept 76 1500 Date, time traps checked 17 Sept 76 1200

Last toe clip # used on previous day 0252 Field Analyst(s) Sanz

Project 83 QA Check Sanz 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-2	PEMA	1051	m	A	18	I	exposure
F-1	PEMA	1105	F	A	U	I	
H-4	EUMI	1043	m	A	U	I	exposure
I-5	PEMA	3100	m	A	U	I	exposure
H-5	CLGA	0254	F	A	16	I	
G-7	PEMA	0141	F	A	U	I	
G-4	PEMA	0255	M	A	20	I	
F-7	PEMA	1031	m	A	19	I	
E-7	PEMA	2003	F	A	U	I	
E-6	PEMA	0253	F	A	16	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.0.5.1.2.20

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 9 Trap Night 3

Date, time traps set 16 Sep 1500 Date, time traps checked 17 Sep 1200

Last toe clip # used on previous day 0153 Field Analyst(s) L. Martin

Project 83 QA Check [illegible] 9-17-84

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-7	EUMI	3010	♂	A	u	I	
F-13	EUMI	1402	♂	A	u	I	
H-13	EUMI	0124	♂	A	u	I	
H-11	CLGA	0154	♀	A	u	P	
J-9	EUMI	0251	♀	A	u	I	
H-9	PEMA	0152	♂	A	u	I	
G-8	EUMI	3005	♀	A	u	I	definitly female
G-9	PEMA	0153	♀	A	u	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name ASPEN Grid G Sample Period 9 Trap Night 4

Date, time traps set 17 Sept. 1300 Date, time traps checked 18 Sept. 1230

Last toe clip # used on previous day 0311 Field Analyst(s) Sam

Project 83 QA Check tm 9-18-78

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-4	CLGA	0312	F	A	U	D	
F-4	TAHU	0313	M	A	U	I	Tamiascurus hudsonicus
H-7	PEMA	0141	F	A	U	I	
G-7	PEMA	1031	M	A	U	D	
E-7	PEMA	2003	F	A	U	D	
E-6	PEMA	0253	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.e.5.1.2.20

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid 5 Sample Period 9 Trap Night 4

Date, time traps set 17 Sep 1300 Date, time traps checked 18 Sep 1300

Last toe clip # used on previous day 0155 Field Analyst(s) L. Martin

Project 83 QA Check bm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
?D-7	EUMI	4123	M	A	28	I	
D-10	CLGA	0155	m	A	12	I	
E-13	PEMA	0211	F	A	13	I	
H-13	EU QU	1402	m	A	u	I	
G-8	PEMA	0212	F	A	12	I	
G-9	PEMA	2020	m	A	u	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5.1.2.90

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name ASPEN Grid G Sample Period 9 Trap Night 5

Date, time traps set 18 Sept PM Date, time traps checked 19 Sept PM

Last toe clip # used on previous day — Field Analyst(s) Sanz

Project 83 QA Check brm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
H-4	CLGA	0254	F	A	U	D	
E-6	EUMI	0315	M	A	26	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.0.5.1.2.20

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Aspen Grid G Sample Period 9 Trap Night 5

Date, time traps set 18 Sep 1300 Date, time traps checked 19 Sep 1330

Last toe clip # used on previous day 0212 Field Analyst(s) L. Martin

Project 83 QA Check Lm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
D-10	CLGA	0143	F	A	U	D	
H-13	CLGA	0213	F	A	13	I	
J-10	ELOT	0131	M	A	U	I	
G-8	PEMA	3003	F	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

MAMMAL NIGHT ROAD CENSUS DATA AND SUMMARY SHEET 53.C.3.4.2

Project 83 Transect # 1 Date 26 Oct, 1976 Sunset Time 1806

Time Begun 2130 Temp. 5°C Time Completed 0100 Temp. 0°C Cloud Cover 50

Starting Point 84 mesa (on map) Finish Point Dump road (on map) Length of Transect 30 mi

Observable Distance Estimates up to 25 meters.

Mile 1 15 ; 2 12 ; 3 6 ; 4 17 ; 5 15 ; 6 15 ; 7 10 ; 8 3 ; 9 5 ; 10 7 ;

11 6 ; 12 8 ; 13 4 ; 14 2 ; 15 4 ; 16 10 ; 17 11 ; 18 12 ; 19 12 ; 20 10 ;

21 8 ; 22 9 ; 23 10 ; 24 10 ; 25 12 ; 26 10 ; 27 9 ; 28 x ; 29 8 ; 30 9 .

Odometer Reading	Species Observed	Habitat	Odometer Reading		Species Observed	Habitat
70.0	Start					
70.5	CANIS LATRANS	Uplands Sage				
75.5	odocoileus hemionus	Bottomland Sage				
75.7	odocoileus hemionus (2)	Bottomland sage				
80.7	odocoileus hemionus (6)	PJ - Sage				
83.7	Odocoileus hemionus	Mixed Brush/Sage				
84.8	Canis latrans (2)	Mixed Brush/Sage				
87.6	Lepus townsendii (3)	Cold				
89.9	Lepus townsendii	Mixed brush/sage				
90.5	Lepus townsendii (1)	Pipeline				
[illegible]	Lepus townsendii	Mixed Brush/Sage				
93.7	Lepus townsendii	Mixed brush/sage				
95.1	Sylvilagus Sp.	Mixed brush/sage				
97.5	Sylvilagus sp.	Sage Brush				
100.0	END					

1. $\bar{x}$ est. dist. 9.27 m. x transect length 48,270 m. = 447,462 sq. m. of coverage.

2. $\frac{\text{sq. m. coverage}}{\text{sq. m./hectare}} = \frac{447,462}{10,000} = 44.75$ hectares; $N = \frac{\text{number sited}}{\text{total hectares}} =$ _____/hectare.

Species	No. Sighted	Hectares Covered	Pop. Est./Hectare
Sylvilagus sp.	2	44.75	0.04
Lepus townsendii	5	44.75	0.11

054/060175

Ivins 11-3-76

DIURNAL NIGHT ROAD CENSUS DATA AND SUMMARY SHEET

Project 83 Transect # 2 Date 27 Oct. 1976 Sunset Time 1804

Time Begun 2045 Temp. 3°C Time Completed _____ Temp. _____ Cloud Cover 0 ;

Starting Point Ephwa (on map) Finish Point Dempsey (on map) Length of Transect 30 mi

Observable Distance Estimates up to 25 meters.

Mile 1 15 ; 2 12 ; 3 6 ; 4 17 ; 5 15 ; 6 15 ; 7 10 ; 8 3 ; 9 5 ; 10 7 ;

11 6 ; 12 8 ; 13 4 ; 14 3 ; 15 4 ; 16 10 ; 17 11 ; 18 12 ; 19 12 ; 20 10 ;

21 8 ; 22 9 ; 23 10 ; 24 10 ; 25 12 ; 26 10 ; 27 9 ; 28 8 ; 29 8 ; 30 9 .

Odometer Reading	Species Observed	Habitat	Odometer Reading	Species Observed	Habitat
47.0	start				
55.5	Sylvilagus Sp.	Pinyon-Juniper			
56.7	Sylvilagus sp.	mixed brush/sage			
56.9	Sylvilagus Sp.	mixed brush/sage			
59.6	Odocoileus hemionus	mixed brush/sage			
61.0	Lepus Townsendii	Mixed brush/Sage			
61.3	Lepus Townsendii	Mixed Brush/Sage			
65.9	Lepus townsendii	Bald			
"	" "	"			
"	" "	"			
"	" "	"			
66.2	Lepus townsendi	Bald			
67.2	Odocoileus hemionus	(4) mixed shrub			
67.4	Lepus townsendi	mixed brush/sage			
67.8	Odocoileus hemionus	mixed brush/sage			
68.0	Lepus townsendii	mixed brush/Sage			
68.1	Odocoileus hemionus	(3) mixed brush/Sage			
68.4	Sylvilagus sp.	mixed brush/sage			
68.8	Lepus townsendii	mixed brush/sage			
68.8	Sylvilagus sp.	gas line sheatgrass			
70.3	Sylvilagus sp	sagebrush			

1. $\bar{x}$ est. dist. 9.27 m. x transect length 48,270 m. = 447,462 sq. m. of coverage.

2. $\frac{\text{sq. m. coverage}}{\text{sq. m./hectare}} = \frac{447,462}{10,000}$ 44.75 hectares; $N = \frac{\text{number sited}}{\text{total hectares}} =$ _____/hectare.

Species	No. Sighted	Hectares Covered	Pop. Est./Hectare
Sylvilagus sp.	6	44.75	0.13
Lepus townsendii	10	44.75	0.22

054/060175

Anne 11-3-7

S3.C.5.2.2.1

STUDIES ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator JA Powers

Location SE¼ Sec 3 T2S R100W Habitat ASPEN

Capture Technique snap trap

Comments all 3 animals were juvenile

Species Microtus longicaudus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1	Su	Su	S			11	Su	Su	S			21	Su	Su	S			31	Su	Su	S			41	Su	Su	Su			
2	Su	Su	S			12	Su	Su	S			22	Su	Su	S			32	Su	S	S			42	S	S	S			
3	Su	Su	S			13	Su	S	S			23	Su	Su	S			33	Su	S	Su			43	Su	Su	S			
4	Su	Su	S			14	Su	Su	S			24	I	S	S			34	Su	S	Su			44	S	Su	S			
5	Su	Su	S			15	Su	Su	S			25	Su	Su	S			35	S	Su	S			45	S	Su	S			
6	Su	S	S			16	Su	Su	S			26	Su	Su	S			36	Su	Su	S			46	Su	S	S			
7	Su	Su	S			17	S	Su	Su			27	Su	Su	S			37	Su	Su	S			47	Su	Su	S			
8	Su	Su	S			18	Su	Su	Su			28	Su	S	S			38	Su	Su	S			48	Su	Su	S			
9	Su	Su	Su			19	S	Su	S			29	Su	S	Su			39	S	S	S			49	Su	Su	S			
10	Su	Su	S			20	Su	Su	S			30	Vh	S	Su			40	Su	Su	Su			50	Su	Su	S			

Measurements						
	Sex	TL	T	HF	E	grams
A	♀	120	40	17	12	12.3
B	♀	110	38	17	9	12.4
C	♀	120	42	17	11	12.5
D						
E						

Vh = hair

ecology consultants, Inc.

Lisa 10-15-76

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1996 Investigator QA Peters

Location SE¼ sec 8, T2S, R11W Habitat Sagebrush

Capture Technique snap-trap

Comments

Species Peromyscus maniculatus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1		S	S	S	S	11	S	Su	S	S	Vf	21	S	S	S	S	S	31	S	Su	S	S	S	41	S	S		S	S
2	S	Su	Su	S	Su	12	S	I	S	S	Su	22	S		S	S	Su	32	S	Su	S	S	Su	42	S	I		S	S
3	S	S	Su	S	Vh	13	S	S	Su	S	Su	23	S	Su	Su	Su	S	33	S		S	S	S	43	S	Su			Su
4	S	I	S	S	S	14	S		S	S	Su	24		Su	S	S	S	34	S	S	S	S	S	44	S	Su		S	S
5	S	I	S	S	S	15	S	Su	I	S	S	25	S	I	S	S	Su	35	S	S	S	S	S	45	S	S	S		
6	S	Su	S	Su	S	16	S	Su	Su		S	26	S	Su		Su	S	36			S	S	Su	46	S	S	S	Vf	S
7	S	I	Su	S	S	17	S	S	S	S	S	27	S	S	S	S	S	37	S	S	Su	S	Su	47	S	Su		S	S
8	S	I	S	S	Su	18	S	Su	S	Vf	S	28	S	I	S	Su	Su	38	S	S	S	S	S	48	S	I	S	S	S
9	S	Su	S	S	S	19	S	Su	Su	S	Su	29	Vf	S	S	S	S	39	S	S	S	S	S	49	S	S	S	S	S
10	S	Su	Su	S	S	20	S	S	S	Su	S	30	S	S	S	S	S	40	S	Su	S	S	Su	50	S	S	S	S	S

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	110	74	20	16	20.3
B	♀	153	65	18	16	18.3
C	♂	150	73	20	16	16.2
D	♀	146	65	20	17	11.2
E	♀	143	60	18	17	10.2

I = bottle-parts

♀, 151-70-18-15 = 13.7 - mostly peanut butter

♀, 152-68-20-17 = 18.2 " very empty stomach

Vf = stomach lining

Vb = bone

- empty stomach

ecology consultants, Inc.

83.c.5.3.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator G A Rays.

Location SE1/4 SEC 8 T25 R99W Habitat Sagebrush

Capture Technique snap-trap

Comments

Species Eutamias minimus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1						11						21						31						41	S					
2						12	S	S				22						32						42						
3						13						23		S				33						43	S					
4						14		S				24	S	S				34		S				44						
5						15						25						35		S				45						
6						16	S					26	S					36						46						
7	S	S				17	S					27		S				37	S					47						
8						18						28	S	S				38						48						
9	S	S				19		S				29						39		S				49		S				
10						20	S					30	S	S				40	S					50	S	S				

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	155	35	30	14	30.4
B	♂	150	32	29	15	32.6
C	♂	110	90	21	15	26.5
D						
E						

- empty stomach

ecology consultants, Inc.

10-15-76

83.C.5.2.2.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator A. A. Paulus

Location NW1/4 SEC22 T2S R10BW Habitat Mixed Brush

Capture Technique snap-trap

Comments

Species Eutamias minimus

	B	C	D	E			B	C	D	E			B	C	D	E			B	C	D	E			B	C	D	E	
	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E	
1	S	S	S	Su		11	S	S	S	S		21	S	S	S	Su		31	S	S	S	Su		41	S		S	S		
2	S	S	S	Su		12	S	S	S	Su		22	S	S	S	S		32	S	S	S	S		42	S		S	Su		
3	S	Su	S	Su		13	S	Su	S	Su		23	I	Su	S	S		33	S	Su	S	S		43	Su	S	S	S		
4	S	S	S	S		14	S	S	S	S		24	Su	S	S	Su		34	S	S	S	Su		44	S	S	S	S		
5	S	S	S	S		15	Su	Su	Su	S		25	S	Su	S	S		35	S	S	S	S		45	S	S	S	S		
6	S	S	S	S		16	S	Su	S	S		26	Su	S	S	Su		36	S	S	S	S		46	S	S	S	S		
7	S	S	S	S		17	S	Su	S	Su		27	S	S	S	S		37	S	S	S	Su		47	S		S	S		
8	S	S		S		18	S	S	S	S		28	S	S	S	Su		38	S	S	S	S		48	S		S	S		
9	S	Su	S	S		19	S	S	S	S		29	S	Su	S	Su		39	S	S	S	Su		49	S	S	S	S		
10	S	S	S	S		20	S	S	S	S		30	S	S	S	Su		40	S	S	S	Su		50	S	S	S	Su		

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	175	72	30	13	31.2
B	♂	175	93	31	14	31.3
C	♀	187	81	33	14	31.7
D	♂	182	77	29	14	28.7
E	♀	193	88	28	17	30.2

empty stomach

← stomach almost empty

ecology consultants, Inc.

Form) 10-1[illegible]71.

83.C.5.22

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 DAT Investigator G.A. Pings

Location NW1/4 SEC22 T2S R100W Habitat Mixed Brush

Capture Technique snap trap

Comments

Species Peromyscus maniculatus

	A	B	C	D	E
1	S	S	C	S	
2	S	S	S	S	
3	S	[illegible]	S	S	
4	Sm	[illegible]	S	S	
5	S	S	S	S	
6	S	S	Sm	S	
7	S	[illegible]	S	S	
8	Sm	S	S	S	
9	[illegible]	S	S	S	
10	[illegible]	S	S	[illegible]	

	A	B	C	D	E
11	[illegible]	S	S	[illegible]	
12	I	[illegible]	S	[illegible]	
13	S	S	[illegible]	S	
14	[illegible]	[illegible]	S	S	
15	[illegible]	[illegible]	S	S	
16	S	Vk	[illegible]	S	
17	I	I	[illegible]	[illegible]	
18	Sm	S	S	S	
19	[illegible]	S	Vk	S	
20	S	S	S	S	

	A	B	C	D	E
21	S	I	[illegible]	S	
22	S	I*	[illegible]	S	
23	[illegible]	S	S	S	
24	[illegible]	S	[illegible]	S	
25	S	S	[illegible]	S	
26	S	[illegible]	[illegible]	S	
27	S	S	[illegible]	S	
28	S	S	[illegible]	Sm	
29	I	S	Sm	S	
30	S	S	[illegible]	I	

	A	B	C	D	E
31	S	[illegible]	S	S	
32	Sm	S	S	S	
33	[illegible]	S	[illegible]	S	
34	S	I*	[illegible]	[illegible]	
35	S	S	[illegible]	S	
36	Sm	S	[illegible]	[illegible]	
37	S	S	[illegible]	S	
38	S	S	[illegible]	S	
39	S	S	S	S	
40	S	S	S	S	

	A	B	C	D	E
41	[illegible]	[illegible]	S	[illegible]	
42	Sm	S	S	S	
43	S	S	S	S	
44	[illegible]	[illegible]	[illegible]	[illegible]	
45	S	S	S	S	
46	[illegible]	S	[illegible]	S	
47	S	S	S	Sm	
48	[illegible]	S	S	S	
49	[illegible]	S	S	S	
50	S	S	S	Sm	

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	[illegible]	[illegible]	18	13	15.7
B	♂	[illegible]	[illegible]	21	16	19.4
C	♀	[illegible]	74	20	16	20.7
D	♂	140	65	20	18	19.[illegible]
E	♂	165	76	20	18	17.4

I = lepidoptera larvae

I* =

Vk =

empty

← very empty

ecology consultants, Inc.

Sum 10-K-71

83.C.5.2.2.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator G.A. Rogers

Location NE¼ SEC 33 T1S R99W Habitat Pinyon-juniper (South facing)

Capture Technique snap trap

Comments See below - All stomach very empty

Species Peromyscus maniculatus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1			S	S		11	S	Vf		S		21	S	S		S		31		Sm		S		41	I	Vf	S	S	
2			S	S		12			S	S		22	S	S	S			32						42	I		S		
3			S	S		13						23	S		S	Vf		33	S	Vf		S		43	S		S		
4	S	Vf		S		14	S	Vf		S		24		Vf	S	S		34			S	S		44		S		S	
5			S			15			S	Vf		25	S	S		S		35		S	S	S		45	S	S	S	S	
6			S	S		16	Vf			S		26	S		S	S		36		S	S			46		S	S		
7		S	S	Vf		17	S		S	S		27	S		S	S		37		S	S	S		47		S	S	S	
8			S	Vf		18	S	S	S	Vf		28	S		S	S		38		Vf		S		48		S	S	S	
9				Vf		19	S	Sm	S	S		29			S	I*		39		S	S	S		49		S	S	S	
10		Vf		S		20	*	Sm	S	S		30			S	S		40		S	S	S		50	S	Vf	S		

Measurements						
	Sex	TL	T	HF	E	grams
A	♀	160	68	20	15	20.1
B	♀	133	58	19	15	12.3
C	♀	135	60	18	16	15.5
D	♀	144	63	19	16	14.0
E	♂	132	60	18	14	12.6

D - ♂ 157-70-19-15 ≡ 16.4
♂ 151-60-20-17 ≡ 19.7 empty
♂ 157-71-20-16 ≡ 16.2 empty

--> empty — substitute
empty

Vf = vertebrate (fish stomach lining
Sm = fleshy-fungi
I = ant
I* = fly wing

ecology consultants, inc.

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator GA Rogers

Location NE 1/4 Sec 33 T15R99W Habitat Pinyon-Juniper (south facing)

Capture Technique Snap-trap

Comments

Species Eutamias minimus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1	S	S	S	S	S	11	S	S	S	S	I	21	S	Su*	S	S	I	31	S	Su	S	Su	Su	41	S	Su	S	S	S
2	S	I*	S	Su	S	12	S	S	S	S	S	22	S	S	S	S	S	32	S	S	S	S	S	42	S	S	S	S	Su
3	I	S	S	S	S	13	S	S	S	S	S	23	S	S	S	S	S	33	S	Su	S	Su	S	43	S	S	Su	S	S
4	S	S	S	S	S	14	S	S	S	Su	S	24	S	S	S	S	S	34	S	S	S	S	S	44	S	S	S	S	S
5	S	S	S	Su	S	15	S	S	S	S	S	25	S	Su	S	S	Su	35	S	S	Su	S	Su	45	S	S	S	S	S
6	S	S	S	Su	S	16	S	S	S	S	Su	26	S	Su	S	S	S	36	S	Su*	S	Su	S	46	S	S	S	S	Su
7	S	S	S	S	S	17	S	I	S	S	S	27	S	Su	S	S	I	37	S	S	S	S	S	47	S	Su	Su	S	S
8	S	I	S	S	S	18	S	S	S	S	S	28	S	S	S	S	S	38	S	S	S	S	Su	48	S	S	Su	S	S
9	S	S	S	I	S	19	S	S	I	Su*	S	29	S	S	Su	S	S	39	S	Su	Su	S	S	49	S	Su	S	S	S
10	S	S	S	S	S	20	S	S	S	S	S	30	S	S	S	S	S	40	S	S	S	S		50	S	S	S	S	Su

Measurements						
	Sex	TL	T	HF	E	grams
A	♀	196	96	20	17	34.0
B	♀	177	96	20	17	31.7
C	♀	178	91	20	17	31.5
D	♀	185	90	20	13	30.6
E	♂	177	88	21	13	34.6

Su = leaf material

♂ 194-84-27-12-12 = 29.0

♂ 203-85-27-13 = 33.3

♂ 185-84-27-13 = 33.5

I* = and Monomorium

I = Lepidoptera larvae

< * = part of lunch? or lichen?

ecology consultants, inc.

83.c.5.2.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator Gl Rogers

Location SE¼ sec 33 T1S R7W Habitat Pinyon-juniper (north-facing)

Capture Technique snap trap

Comments see below

Species Peromyscus maniculatus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1	Sm	S		I	S	11	Sm	S	S	S	S	21	S	S	S	S	S	31	S	S	S	I	I	41	S	S	S	S	S
2	S	S	S	S	S	12	Sm	S	Sm	S	S	22	S	S	S	S	S	32	S	S	S	S	I	42	S	S	S	S	S
3	S	S	S	S	S	13	Sm	S	S	S	S	23	S	S	S	S	S	33	S	S	S	S	S	43	S	S	S	S	S
4	Sm	S	S	S	S	14	S	S	S	S	S	24	S	I	S	S	S	34	S	S	S	S	S	44	S	S	S	S	S
5	S	S	S	Sm	S	15	S	I**	S	S		25	S	S	S	S	S	35	S	S	S	S	S	45	S	S	S	S	S
6	S	S	S	S	S	16	S	I*	S	S	I	26	S	I	S	S	I	36	Sm	S	S	S	S	46	S	S	S	S	S
7	S	S	S	S	S	17	S	I*	I*	S	S	27	S	I	S	S	S	37	S	S	S	S	S	47	S	S	S	S	S
8	Sm	S	S	Sm	S	18	S	S	S	S	S	28	Sm	S	V	S	S	38	S	S	S	S	S	48	S	S	S	S	S
9	S	S	S	I	S	19	Sm	S	S	S	S	29	Sm	S	S	S	S	39	S	S	S	S	S	49	Sm	S	S	S	S
10	Sm	I	S	S	S	20	S	I***		S	S	30	S	S	S	S	S	40	S	S	S	S	S	50	I*	I	S	S	S

Measurements						
	Sex	TL	T	HF	E	grams
A	♀	164	72	17	14	20.1
B	♀	162	70	19	14	19.2
C	♀	160	72	19	14	20.1
D	♀	159	69	18	14	18.6
E	♀	160	70	18	16	20.4

→ stomachs very

I = beetle part

I* = lepidoptera - Noctuid larvae - (live in the litter under the trees - probably dug it out -)

I** = unknown -

I*** = ant

Vf = stomach fungus

ecology consultants, Inc.

STOMACH ANALYSIS DATA SHEET

83.0.5.32.1

Project 83 Date July 1976 Investigator O.A. Reeves

Location SE¼ Sec 33 T15R9W Habitat Pinyon - juniper (north facing)

Capture Technique snap trap

Comments see below

Species Eutamias minimus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1	S					11	S					21	S					31	S					41	S					
2	S					12	V-f					22	S					32	S					42	S					
3	S					13	S					23	S					33	S					43	S					
4	S					14	S					24	S					34	S					44	S					
5	S					15	S					25	S					35	S					45	S					
6	S					16	S					26	S					36	S					46	I**					
7	S					17	S					27	S					37	S					47	S					
8	S					18	S					28	S					38	S					48	S					
9	S					19	S					29	S					39	I*					49	S					
10	S					20	S					30	S					40	S					50	Su					

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	138	80	26	13	30.6
B	♂	210	30	30	17	39.0
C						
D						
E						

— empty stomach

V-f — fleshy lining of stomach

I* — spider

I** — Eciton nigrescens — Ant! (this species is predatory, probably feeding on the carcass)

ecology consultants, Inc.

83.0.5.8.2.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator Rouse

Location SW¼ sec 30 T 15 R 9 E Habitat Grassland/Sagebrush

Capture Technique snap trap

Comments

Species Peromyscus maniculatis

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1						11						21						31						41						
2						12						22						32						42						
3						13						23						33						43						
4						14						24						34						44						
5						15						25						35						45						
6						16						26						36						46						
7						17						27						37						47						
8						18						28						38						48						
9						19						29						39						49						
10						20						30						40						50						

Measurements						
	Sex	TL	T	HF	E	grams
A	♂	140	60	19	16	14.4
B						
C	♂	141	66	20	14	12.8
D	♂	146	70	20	16	17
E	♂	145	62	19	16	14.2

Stomach empty

"

"

"

"

♂ 143-64-19-16 = 15.2 g Stomach empty

♂ 140-59-18-13 = 11.7 g "

♂ 146-52-19-17 = 12.5 g "

ecology consultants, inc.

10-15-76

33 e.5.2.2.1

STOMACH ANALYSIS DATA SHEET

Project 83 Date July 1976 Investigator Reynolds

Location SW¼ sec 30 T15 R19W Habitat Greasewood/Sagebrush

Capture Technique snap-trap

Comments

Species Eutamias minimus

	A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E		A	B	C	D	E
1						11						21						31						41					
2						12						22						32						42					
3						13						23						33						43					
4						14						24						34						44					
5						15						25						35						45					
6						16	V*					26						36						46					
7						17						27						37						47					
8						18						28						38	I					48					
9						19						29						39						49					
10						20						30						40						50					

Measurements						
	Sex	TL	T	HF	E	grams
A	♀	190	95	19	14	35.5
B	♂	193	92	20	14	29.9
C	♀	190	92	21	13	33.7
D	♀	195	92	21	14	36.0
E	♂	180	95	21	15	25.9

V* = parts of stomach lining

I = nite

♂ 191-84-30-14 ≡ 26.5g

♂ 197-86-30-15 ≡ 29.7g

♂ 195-85-30-14 ≡ 28.0g

all stomachs are very empty except for B which had a pyramid butter which comprised at least 90% of the contents — all others

ecology consultants, Inc.

83.6.3.2.2.2

REPRODUCTIVE STATUS DATA SHEET

Project 83 Date July 1976 Investigator QA Reps

Location SE¼ Sec 3 T7S R16W Habitat ASPEN

Capture Technique snap-trap

Comments

Species Microtus longicaudus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	170	40	17	12	12.3						juvenile – nulliparous
B	110	38	17	8	12.4						" nulliparous
C	170	42	17	11	13.5						" nulliparous
D	183	65	20	13	42.0		0	3			12 mm
E	170	61	19	14	41.0		2	3			fetus 5 mm x 3

* = trap deaths

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

Done 10-15-76

83.C.5.2.2.2

REPRODUCTIVE STATUS DATA SHEET

Project 83 Date July 1976 Investigator J. Reyes

Location SE¼ sec 8 T2S R4W Habitat Sagebrush

Capture Technique snap-trap

Comments

Species Peromyscus maniculatus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	153	65	18	16	18.8						nulliparous
B	146	65	20	17	11.2						nulliparous
C	143	60	18	17	10.2						nulliparous
D	152	68	20	17	18.2				4	3	—
E											

Species Eutamias minimus

no females

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

Form 10-15-76

REPRODUCTIVE STATUS DATA SHEET

83.C.5.22.2

Project 83 Date July 1976 Investigator SAR

Location NW1/4 Sec 22 T25 R10W Habitat Mixed Brush

Capture Technique snap-trap

Comments

Species Peromyscus maniculatus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	162	74	20	16	20.7	—			?,	3	lactating
B											
C											
D											
E											

Species Eutamias minimus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	185	82	30	13	31.2						nulliparous
B	175	78	29	14	30.3						nulliparous
C	193	88	28	12	30.2				3	3	
D											
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

bmw 10-15-76

REPRODUCTIVE STATUS DATA SHEET

83.C.5.2.2.2

roject 83 Date July 1976 Investigator G A Bryce

ocation NE¼ sec 33 T15 R99W Habitat Pinyon-juniper (south-facing)

are Technique Snap trap

omments

pecies Peromyscus maniculatus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	160	68	20	15	20.1				3	3	
B	130	58	19	15	12.3				—		nulliparous Ju
C	135	60	18	16	15.5				3	1	
D	149	63	19	16	19.0				—		nulliparous
E											

pecies Eutamias minimus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	196	90	30	12	34.0				3	3	very old scars
B	197	96	30	12	31.7						uterine tract bidrou do
C	195	97	30	13	31.5						nulliparous
D	205	99	30	13	30.6						nulliparous
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
D											
E											

Lucas 10-15-76

REPRODUCTIVE STATUS DATA SHEET

83.C.5.2.2.2

Project 83 Date July 1976 Investigator G.A. Reyes

Location SE¼ sec 33 T 15 R 99 W Habitat Pinyon-juniper (north facing)

.. ure Technique Snap-trap

Comments

Species Peromyscus maniculatus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	164	73	17	14	20.1				5	4	
B	163	70	19	14	19.2				3	4	
C	160	72	19	14	20.1						
D	139	59	16	14	13.6						nulliparous ♀ V
E	160	70	18	16	20.4				7	7	2 sets of scars (4 3) + (3 4)

Species Eutamias minimus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	188	80	26	13	30.6						
B	210	80	30	17	39.0						
C											
D											
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
C											
D											
E											

Lmw 10-15-76

REPRODUCTIVE STATUS DATA SHEET 83.0.5.2.2.2

Project 83 Date July 1976 Investigator Reyes

Location SW¼ sec 30 T15R98W Habitat Greasewood/Sagebrush

...ure Technique Snap-trap

Comments

Species Peromyscus maniculatus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	140	60	19	16	15.0				4	3	(illegible)
B	144	58	19	16	15.7						multiparous
C	140	60	20	15	12.8						multiparous
D	150	70	20	16	19.7				2	2	vesicular
E	140	62	17	14	14.2						multiparous

Species Eutamias minimus

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A	200	85	29	14	35.5						multiparous
B	~~165~~	~~82~~	~~30~~	~~14~~	~~29.9~~						male
C	190	92	27	13	33.7						multiparous
D	195	92	29	14	36.0						
E											

Species

	TL	T	HF	E	grams	Inactive	Embryos R	Embryos L	Placental Scars R	Placental Scars L	Comments
A											
B											
D											
E											

bmw 10-15-76

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number G Location ASHEN Field Analysts RCS / LM

Sampling Period 4 Project Number 83 QA Check

Date	Species	Sex	Age	Comments*
9-15-76	NO CAPTURES			—
9-16-76	NO CAPTURES			—
9-17-76	SOREX PALUSTRIS	?	A	—
9-18-76	NO CAPTURES			—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number G Location [illegible] Field Analysts BOS / LM

Sampling Period 7 Project Number 052 QA Check

Date	Species	Sex	Age	Comments*
7-15-76	NO CAPTURES			—
7-16-76	NO CAPTURES			—
7-17-76	[illegible]	?	A	—
7-18-76	NO CAPTURES			—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

ecology consultants, inc.

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location Fairbanks Field Analysts D McGuire

Sampling Period 4 Project Number 73 QA Check

Date	Species	Sex	Age	Comments*
9-15-76	NO CAPTURES			—
9-16-76	NO CAPTURES			—
9-17-76	Microtus longicaudus	♂	J	—
9-18-76	Sorex cinereus	?	?	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location [illegible] Field Analysts McGuire

Sampling Period Oct 76-9 Project Number [illegible] QA Check Lum 9-15-76

Date	Species	Sex	Age	Comments*
9/15/76	V. [illegible]		ad	Positive ID needed
9/15/76	S. [illegible]		ad	" " "
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

File No: 12c.3.3.1

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number G Location Aspen Field Analysts Sanz & Martin

Sampling Period 9 Project Number 83 QA Check [illegible] 9-15-76

Date	Species	Sex	Age	Comments*
15 Sept	No Captures			
16 Sept	Sorex ?			
17 Sept	No Captures			
18 Sept	No Captures			
	pitfall G			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

ecology consultants, inc.

File No. [illegible]

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location [illegible] Field Analysts D McGuire

Sampling Period 1 Project Number 72 QA Check

Date	Species	Sex	Age	Comments*
9-15-76	NO CAPTURES			—
9-16-76	NO CAPTURES			—
9-17-76	Microtus longicaudus	♂	J	—
9-18-76	Sorex cinereus	?	?	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location RAMBLEWOOD Field Analysts McGUIRE

Sampling Period SEPT 76-9 Project Number 23 QA Check from 9-15-76

Date	Species	Sex	Age	Comments*
9/15/76	Vole -		ad	Positive ID needed
9/15/76	S. bairdi		ad	" " "
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location [illegible] Field Analysts D McGuire

Sampling Period 4 Project Number 72 QA Check

Date	Species	Sex	Age	Comments*
9-15-76	NO CAPTURES			—
9-16-76	NO CAPTURES			—
9-17-76	Microtus longicaudus	♂	J	—
9-18-76	Sorex cinereus	"	"	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 3 Location [illegible] Field Analysts McGUIRE

Sampling Period SEPT 76-9 Project Number [illegible] QA Check Lum 9-15-76

Date	Species	Sex	Age	Comments*
9/15/76	Vole -		ad	Positive ID marked
9/15/76	" (mouse)		ad	" " "
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 1 Location Kirtland Meadow Field Analysts McGuire

Sampling Period 9 Project Number 93 QA Check Lion 9-20-76

Date	Species	Sex	Age	Comments*
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			
9-19-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 2 Location Sagebrush (Plot 1) Field Analysts DCK, MSR

Sampling Period 9 Project Number 23 QA Check [signature] 9-18-76

Date	Species	Sex	Age	Comments*
9/15/76	no captures	—	—	—
9/16/76	no captures	—	—	—
9/17/76	no captures	—	—	—
9/18/76	No captures	—	—	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

ecology consultants, .

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 4 Location P-J/mixed brush Field Analysts McIlvaine/Schaller

Sampling Period Sep 76-9 Project Number 83 QA Check [illegible] 9-15-76

Date	Species	Sex	Age	Comments*
9/15/76	No captures			
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060375

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 6 Location RT / Saa Field Analysts DCK DSR

Sampling Period 9 Project Number 83 QA Check Lam 9-19-76

Date	Species	Sex	Age	Comments*
9/15/76	No captures	—	—	—
9/16/76	No captures	—	—	—
9/17/76	No captures	—	—	—
9/18/76	No captures	—	—	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number 7 Location upland meadow Field Analysts Sang/Martin

Sampling Period 9 Project Number E3 QA Check Lum 9-18-76

Date	Species	Sex	Age	Comments*
16 Sept '76	No Captures			
17 Sept.	No Captures			
18 Sept	No Captures			
19 Sept	No Captures			
	Pitfalls closed			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number A Location Greasewood/Sage Field Analysts DCK, KJSP

Sampling Period 9 Project Number 83 QA Check [illegible] 9-19-76

Date	Species	Sex	Age	Comments*
9/17/76	No captures	—	—	—
9/18/76	No captures	—	—	—
9/19/76	No captures	—	—	—
9/20/76	No captures	—	—	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

zoology consultants, inc

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number B Location South P-T Field Analysts McGuire

Sampling Period Sept 76-9 Project Number 83 QA Check Irw 9-15-76

Date	Species	Sex	Age	Comments*
9-15-76	No captures			
9-16-76	No captures			
9-17-76	No captured			
9-18-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number C Location PJ North Field Analysts DCK, LJR

Sampling Period 9 Project Number 83 QA Check Lm 9-19-76

Date	Species	Sex	Age	Comments*
9/17/76	No captures	—	—	—
9/18/76	No captures	—	—	—
9/19/76	No captures	—	—	—
9/20/76	No captures	—	—	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number D Location Cog. ridge Field Analysts DCK, WSR

Sampling Period 9 Project Number 83 QA Check Anne 9-19-76

Date	Species	Sex	Age	Comments*
9/17/76	No captures	—	—	—
9/18/76	No captures	—	—	
9/19/76	No captures	—	—	—
9/20/76	No captures	—	—	—

*Reproductive condition, diagnostic characters, future use of specimens, etc.

File No. _____

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number E Location Mixed Brush (S) Field Analysts Sanz / Martin

Sampling Period 9 Project Number 83 QA Check Sum 9-19-76

Date	Species	Sex	Age	Comments*
16 Sept '76	No Captures			
17 Sept	No Captures			
18 Sep	No Captures			
19 Sep	No Captures			
	pitfalls closed			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number F Location Douglas Fir Field Analysts Sanz d'Martin

Sampling Period 9 Project Number 83 QA Check Ann 9-15-76

Date	Species	Sex	Age	Comments*
15 Sept	No Captures			
16 Sept	No Captures			
17 Sept.	No Captures			
18 Sept.	No Captures			

Pitfall Shorted

*Reproductive condition, diagnostic characters, future use of specimens, etc.

057/060175

ecology consultants, inc

SMALL MAMMAL PITFALL FIELD DATA SHEET

Pitfall Number Riparian Location Stake Springs Field Analysts McGuire

Sampling Period 9 Project Number 83 QA Check [illegible] 9-20-76

Date	Species	Sex	Age	Comments*
9-16-76	No captures			
9-17-76	No captures			
9-18-76	No captures			
9-19-76	No captures			

*Reproductive condition, diagnostic characters, future use of specimens, etc.

Sheet 2 of 2 — SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J- Sagebrush Grid 6 Sample Period 9 Trap Night 3

Date, time traps set 16 Sep 1730 Date, time traps checked 17 Sep 1500

Last toe clip # used on previous day 0112 Field Analyst(s) Sany

Project 83 QA Check Lum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	PEMA	0112	M	A	15	I	0112-0121-0131-01
A-2	EUMI	1033	F	A	U	I	
A-3	PEMA	0113	M	A	14	I	
A-4	EUMI	1101	M	A	U	I	
A-5	PEMA	0111	F	A	17	I	
A-8	PEMA	1104	F	A	U	I	
A-9	PEMA	3100	F	A	U	I	
B-9	MILO	0115	M	A	14	I	
B-6	EUQU	1205	F	A	U	I	

* Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, Inc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 9 Trap Night 4/

Date, time traps set 9/17/76 (1500) Date, time traps checked 9/18/76 (1530)

Last toe clip # used on previous day 0312 Field Analyst(s) dck

Project 83 QA Check lwm 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	0112	M	A	R	I	—
A3	EUMI	1103	F	A	R	I	—
A4	EUMI	1002	M	A	R	I	—
B4	PEMA	0313N	M	A	12	I	—
A5	PEMA	1405	M	A	R	I	—
B6	PEMA	1305	M	A	R	I	—
B7	EUQU	0252	F	A	R	I	—
A7	EUQU	0314N	F	A	43	I	—
A8	EUMI	1035	F	A	R	I	—
B8	EUQU	1041	M	A	R	I	—
A9	EUMI	1040	M	A	R	I	—
B10	PEMA	1203	F	A	R	I	—
A12	EUMI	0408	M	A	27	I	a natural clip 3rd toe on 2nd foot is de[illegible]

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PI Sage Grid C6 Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 Date, time traps checked 9/18/76 1530

Last toe clip # used on previous day 0115 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C4	PEMA	0113	M	A	R	T	—
C7	PEMA	0667	F	A	—	Dead	—
C8	EUOU	1205	F	A	R	T	—
C10	EUOU	0311	F	A	R	T	
C13	SUMI	2200	M	A	R	T	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 Date, time traps checked 9/19/76 1715

Last toe clip # used on previous day 0323 Field Analyst(s) DCK

Project 83 QA Check bmw 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	0324N	F	A	32	I	—
A5	PEMA	0325N	—	A	—	I	partially eaten
A7	EUQU	1041	M	A	R	D	—
A8	EUMI	0331N	M	A	27	I	—
B9	EUQU	0322	F	A	R	I	—
A9	PEMA	0332N	M	A	29	I	—
A10	PEMA	1203	F	A	R	D	—
A12	EUQU	1205	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ/Sage Grid 6 Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 Date, time traps checked 9/19/76

Last toe clip # used on previous day 0323 Field Analyst(s) NSR

Project 83 QA Check hrm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C3	EuQu	1033	F	A	R	I	—
C4	PETR	0121	M	A	20	I	—
C5	PEMA	1305	m	A	R	I	— Dead
C7	PEMA	0255	m	A	R	I	—
C8	EUGU	0311	F	A	R	Dead	—
C9	PEMA	0111	m	A	R	I	—
C10	EUMI	0411	m	A	33	I	?
C11	EUMI	1025	F	A	—	I	escaped
C13	EUMI	0122	F	A	36	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 1 File No: 83.0.3.1.2.12

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 9 Trap Night 1

Date, time traps set 14 Sep 1630 Date, time traps checked 15 Sep 1830

Last toe clip # used on previous day 1051 Field Analyst(s) L. Martin

Project 83 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-13	PEMA	1052	♂	A	16	I	
A-10	PEMA	1035	♀	A	16	I	
A-6	EUMI	1053	♀	A	U	F	escaped before weighing
A-3	EUMI	1054	♂	A	29	U	dead?
A-2	EUMI	2020	♂	A	29	T	
C-5	PEMA	4004	♂	A	17	I	
C-9	EUMI	1200	♂	A	28	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

geology consultants, inc.

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland meadow Grid 7 Sample Period 9 Trap Night 2

Date, time traps set 15 Sept 1116 1630 Date, time traps checked 16 Sept 76 1600

Last toe clip # used on previous day 1054 Field Analyst(s) Sam

Project 83 QA Check Sam 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-11	PEMA	1403	F	A	17	I	
A-10	LACU	1404	M	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 9 Trap Night 2

Date, time traps set 15 Sep 1830 Date, time traps checked 16 Sep 1600

Last toe clip # used on previous day 1054 Field Analyst(s) L. Martin

Project 83 QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-2	PEMA	1055	♂	A	12	I	
A-4	EUMI	2020	♂	A	U	I	
B-5	EUMI	1101	♂	A	27	I	
B-6	EUMI	1300	♂	A	U	I	
A-6	PEMA	4004	♂	A	U	I	
B-10	EUMI	1200	♂	A	U	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. 83.2.3.7.8.13

Grid Name Upland meadow Grid 7 Sample Period 9 Trap Night 3

Date, time traps set 16 Sept 76 1600 Date, time traps checked 17 Sept 76 1350

Last toe clip # used on previous day 1404 Field Analyst(s) Sam

Project 83 QA Check Lum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-5	EUMI	1053	F	A	V	I	
A-10	PEMA	1035	F	A	V	I	
B-8	PEMA	4004	M	A	V	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 9 Trap Night 3

Date, time traps set 16 Sep 1600 Date, time traps checked 17 Sep 1330

Last toe clip # used on previous day 1101 Field Analyst(s) L. Martin

Project 83 QA Check [illegible] 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	PEMA	5010	♀	A	13	I	
A-6	PEMA	1102	♂	A	12	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland woodlot Grid 7 Sample Period 9 Trap Night 4

Date, time traps set 17 Sept. 1500 Date, time traps checked 18 Sept. 1500

Last toe clip # used on previous day — Field Analyst(s) Sam

Project 83 QA Check Lum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-5	PEMA	0114	m	A	16	I	
C-8	EUMI	1200	F	A	U	D	
C-11	PEMA	1403	F	A	U	I	
A-13	PEMA	1052	m	A	U	I	
A-12	EUMI	0115	F	A	26	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 File No: 83.2.1.2.13

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 9 Trap Night 4

Date, time traps set 17 Sep 1500 Date, time traps checked 18 Sep 1500

Last toe clip # used on previous day 1102 Field Analyst(s) L. Martin

Project 83 QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	1300	m	A	U	I	
B-7	PEMA	1103	m	A	14	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upl. 1 inside Grid 7 Sample Period 9 Trap Night 5

Date, time traps set 8 Sept. PM Date, time traps checked 19 September 76 PM

Last toe clip # used on previous day 0115 Field Analyst(s) Sam

Project 83 QA Check Jrm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C-1	PEMA	0121	m	A	17	I	
C-5	EUMI	1053	F	A	U	I	exposure
C-8	PEMA	4004	m	A	U	I	
A-13	PEMA	0122	F	A	18	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Upland Meadow Grid 7 Sample Period 9 Trap Night 5

Date, time traps set 18 Sep 1500 Date, time traps checked 19 Sep 1500

Last toe clip # used on previous day 1102 Field Analyst(s) L. Martin

Project P3 QA Check lrm 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	1103	F	A	30	I	
A-4	PEMA	1104	F	A	12	I	
B-5	EUMI	1010	F	A	29	I	
A-6	PEMA	1105	F	A	12	I	
A-10	PEMA	1025	F	A	14	D	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 83-3-7-62-72

Grid Name Greasewood / Sage Grid A Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1330) Date, time traps checked 9/15/76 (1002)

Last toe clip # used on previous day 2434 Field Analyst(s) DCK

Project 83 QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
M1	EUMI	4041	M	A	34	I	—
M2	PEMA	2435N	M	A	14	I	—
L2	PEMA	2441N	F	A	17	I	—
J2	PEMA	2442N	F	A	17	I	bot fly larva
H2	PEMA	2443N	M	A	17	I	—
F2	EUMI	2444N	M	A	32	I	—
D2	EUMI	2445N	M	A	34	I	—
C2	EUMI	3205	F	A	31	I	—
B2	EUMI	4204	M	A	33	I	—
D4	EUMI	2451N	M	A	32	I	—
C4	EUMI	2452N	F	A	31	I	—
D4	PEMA	3033	F	A	17	I	—
G4	PEMA	3220	M	A	18	I	poor toe clip
H4	PEMA	2453N	F	A	19	I	—
J4	PEMA	2454N	F	A	18	I	—
K4	EUMI	2455N	M	A	33	I	—
L4	EUMI	4111N	F	A	40	I	stripe to base of tail
M4	EUMI	4112N	F	A	28	I	poor condition
F6	EUMI	4041	M	A	32	I	—
E6	EUMI	4113N	M	A	33	I	—
D6	PEMA	4114N	F	A	14	I	—
B6	EUMI	3301	M	A	30	I	—
A6	EUMI	6101	F	A	—	D	—
B8	EUMI	3104	F	A	34	I	—
D8	EUMI	4053	M	A	30	I	—
M8	EUMI	4115N	F	A	32	I	—
M10	EUMI	4121N	F	A	31	I	—
L10	PEMA	2104	M	A	—	D	—
K10	EUMI	4402	M	A	36	I	—
F10	EUMI	4122N	F	A	31	I	—
D10	PEMA	4123N	M	A	17	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood - Sage Grid A Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1300) Date, time traps checked 9/15/75 (1000)

Last toe clip # used on previous day 3135 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	3141N	M	A	29	I	—
B1	EUMI	3142N	F	A	29	I	—
C1	EUMI	3250	M	A	36	I	—
D1	EUMI	3143N	M	A	—	—	escaped
F1	EUMI	3144N	F	A	31	I	—
H1	PEMA	3145N	F	A	18	I	—
J1	EUMI	2150	M	A	29	I	—
K1	EUMI	3151N	M	A	31	I	—
L1	EUMI	3203	m	A	31	I	—
M3	PEMA	24303	F	A	20	I	two toe clips on one ft.
J3	MILO	3153N	M	A	25	I	—
H3	MILO	3154N	m	A	24	I	—
F3	PEMA	2213	m	A	17	I	—
C3	EUMI	4052	m	A	31	I	—
A3	PEMA	3054	F	A	17	I	—
D5	PEMA	3155N	m	A	18	I	—
J5	EUMI	4045	F	A	31	I	—
J7	EUQU	3211N	m	A	51	I	bot flies
F7	EUMI	3212N	F	A	31	I	—
D7	EUMI	3120	F	A	—	I	escaped before weight
D9	PEMA	4130	F	A	16	I	
J9	PEMA	2024	m	A	14	I	
L11	EUMI	1241	m	A	26	I	
K11	EUMI	1223	F	A	—	I	escaped before weight
H11	PEMA	2314	m	A	16	I	
F11	SPLA	3402	F	A	157	I	ground squirrel
D11	PEMA	3213N	m	A	18	I	
C11	PEMA	3214N	m	A	14	I	
A12	SPLA	3215N	M	A	131	I	
A13	EUMI	3221N	m	A	28	I	
B13	EUMI	3222N	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

7060175

Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassweed Sp Grid A Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1330) Date, time traps checked 9/15/76 (1000)

Last toe clip # used on previous day 2434 Field Analyst(s) DCK

Project 83 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
B12	EUMI	2043	M	A	31	I	—
C12	EUMI	4116(23)4	M	A	29	I	—
E12	EUMI	2412	F	A	31	I	—
H12	PEMA	63100	F	sub A	13	I	—
J12	EUMI	4125N	M	A	30	I	—
L12	EUMI	6102	F	A	—	D	—
M13	PEMA	2215	M	sub A	13	I	—
L13	PEMA	2044	F	A	121	I	—
L13	PEMA	4131N	F	sub A	11	I	—
K13	EUMI	2413	M	A	30	I	—
H13	EUQU	4132N	F	A	118	I	—
C-13	EUQU	3223N	M	A	47	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood Sage Grid A Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1400) Date, time traps checked 9/16/76 (0900)

Last toe clip # used on previous day 4132 Field Analyst(s) DCK

Project 83 QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A10	EUMI	3104	F	A	R	I	—
A12	PEMA	6103N	F	A	—	D	—
A13	EUMI	4240	M	A	32	I	—
B13	EUMI	4133M	F	A	36	I	—
C13	EUMI	3222	F	A	R	I	—
E13	EUMI	4134N	M	A	32	I	—
H13	EUMI	2043	M	A	R	I	—
K13	EUMI	4125	M	A	R	I	—
L13	EUMI	2413	M	A	R	I	definitely ♂
M12	EUMI	2014	F	A	31	I	—
L12	EUQU	3420	F	A	48	I	—
J12	EUMI	4135M	M	A	32	I	—
H12	PEMA	2044	F	A	R	I	—
F12	SPLA	3402	F	A	155R	I	—
D12	EUMI	2112	F	A	R	I	poor condition
D11	EUQU	4132	F	A	R	I	—
F11	EUQU	3211	M	A	41	I	—
H11	PEMA	[illegible]	F	A	R	I	—
L11	PEMA	2312	F	A	15	I	—
M11	PEMA	2045	M	A	—	D	—
L10	PEMA	2023	M	A	16	I	—
K10	EUMI	2124	M	A	28	I	—
F9	EUMI	4202	M	A	31	I	—
F10	EUMI	4053	M	A	R	I	—
E9	PEMA	4141N	F	A	15	I	—
D9	PEMA	4142N	M	A	16	I	—
D10	EUMI	1223	F	A	31	I	—
B8	EUMI	3301	M	A	R	I	—
G7	PEMA	4130	F	A	16R	I	—
H7	EUMI	4402	M	A	R	I	—
J7	EUMI	4143N	M	A	30	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET (M4)

Grid Name Greasewood-Sage Grid A Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1400) Date, time traps checked 9/16/76 (900)

Last toe clip # used on previous day 3223 Field Analyst(s) NSR

Project [illegible] QA Check Lorm 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	3224N	M	A	37	I	—
B1	EUMI	3225N	M	A	31	I	—
C1	EUMI	3231N	M	A	31	I	—
D1	EUMI	3230N	M	A	30	I	— could be 3230
F1	EUMI	3203N	M	A	—	I	— 3203 (escaped before weighing)
H1	EUMI	2450	M	A	R	I	—
K1	EUMI	4465	M	A	35	I	—
L1	EUMI	3202	M	A	32	I	tail partially cut (only 1
M1	PEMA	3233N	F	A	13	I	—
M2	EUMI	3234N	F	A	35	I	tail cut - fur gone but [illegible]
L2	EUMI	3235N	M	A	31	I	—
K2	PEMA	3241N	M	A	20	I	—
J2	EUMI	3242N	F	A	31	I	tail cut - only bone
H2	EUMI	2444	M	A	R	I	—
F2	PEMA	4035	M	A	19	I	—
D2	EUMI	3243N	F	A	31	I	—
C2	EUMI	3240	M	A	32	I	—
B2	EUMI	4115	F	A	R	I	poor condition
A3	EUMI	2130	M	A	30	I	—
B3	EUMI	2452	F	A	R	I	poor condition -
D3	EUMI	3205	F	A	31	I	—
F3	EUMI	2455	M	A	R	I	—
K3	PEMA	2124	F	A	23	I	—
L3	EUMI	3206	M	A	—	Dead	—
M3	EUMI	4041	M	A	R	I	—
L4	EUMI	4043	M	A	34	I	—
K4	PEMA	3244N	M	A	17	I	—
J4	EUMI	3042	M	A	37	I	—
H4	PEMA	3200	M	A	18	I	—
G4	EUMI	4144	F	A	R	I	— just seen escaped before [illegible]
F4	EUMI	3245N	F	A	33	I	—

*Key taxonomic characters, physical condition of animal, etc.

Sheet 3 of 4 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: [illegible]

Grid Name Greasewood Sage Grid A Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1400) Date, time traps checked 9/16/76 (900)

Last toe clip # used on previous day 3223 Field Analyst(s) NSB

Project 83 QA Check Lurm 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E4	PEMA	2213	M	A	18	I	—
D4	EUMI	4052	F	A	34	I	—
C4	EUMI	4204	M	A	R	I	—
A4	SPLA	3251N	F	A	169	I	—
D5	PEMA	3033	F	A	R	I	— Jack
G5	EUMA	3252N	F	A	35	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 2 of 11

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood Sag Grid 1 Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1400) Date, time traps checked 9/16/76 (0900)

Last toe clip # used on previous day 4143 Field Analyst(s) dck

Project 83 QA Check burn 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J5	PEMA	3230	F	A	18	I	—
M6	EUMI	4144N	M	A	31	I	—
G6	EUMI	3212	F	A	28	I	—
E6	EUMI	4145N	M	A	28	I	—
I5	EUMI	4151N	F	A	34	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood Sage Grid A Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 (0900) Date, time traps checked 9/17/76 (0900)

Last toe clip # used on previous day 4151 Field Analyst(s) dck

Project 83 QA Check bm 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	4152N	F	A	16	I	—
A10	EUMI	3104	F	A	R	I	—
A13	EUMI	3222	M	A	28	I	poor condition
B13	EUQU	4153N	M	A	40	I	—
C13	EUMI	4154N	F	A	28	I	—
E13	EUMI	2412	F	A	R	I	—
J13	EUMI	2451	M	A	R	I	—
K13	EUQU	3211	M	A	R	I	—
L13	EUQU	4155N	M	A	40	I	—
M13	EUMI	2014	F	A	R	I	—
M12	EUQU	3420	F	A	R	I	poor condition
J12	EUMI	1223	M	A	R	I	—
B12	EUMI	4133	F	A	R	I	—
E12	EUQU	4132	F	A	R	I	—
C11	EUMI	4211M	M	A	29	I	—
H11	EUMI	4212N	F	A	32	I	—
L10	EUMI	2424	M	A	R	I	—
K10	PEMA	2215	M	A	R	I	—
H10	PEMA	2312	F	A	R	I	—
E9	PEMA	4130	F	A	R	D	—
D10	EUMI	4213M	F	A	36	I	—
D9	EUMI	4134	M	A	R	I	—
D8	PEMA	4214N	F	A	13	I	—
E8	EUMI	4202	M	A	R	I	—
H7	PEMA	3214	M	A	R	I	—
J8	EUMI	4102	M	A	R	I	—
I5	EUMI	3202	M	A	R	I	—
G6	EUMI	4053	M	A	R	I	—
G5	PEMA	2415N	M	A	23	I	bot fly
D6	PEMA	4114	F	A	R	I	—
D5	PEMA	2213	M	A	R	D	—
C6		3301	M	A	R	D	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassland Sage Grid A Sample Period 9 Trap Nights 3

Date, time traps set 9/16/76 2:00 Date, time traps checked 9/17/76 2:00

Last toe clip # used on previous day 3252 Field Analyst(s) NSR

Project E3 QA Check bmw 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	3224	m	A	R	I	-
B1	EUMI	5091	m	A	—	Dead	
C1	EUMI	3250	m	A	36	I	
D1	EUMI	3143	m	A	21	I	
F1	EUMI	4405	m	A	R	I	
L1	PEMA	5002	m	A	—	Dead	
M1	EUMI	2450	m	A	R	I	poor condition (moldy)
M2	PEMA	3253	m	A	17	I	-
L2	EUMI	3254	F	A	31	I	-
J2	PEMA	0241	F	A	17	I	-
D2	EUMI	5009	m	A	—	Dead	-
C2	EUMI	3142	F	A	R	I	-
B2	PEMA	3255	F	A	15	I	-
A3	EUMI	1413	F	A	35	I	-
B3	EUMI	1153	m	A	28	I	-
C3	EUMI	4201	m	A	R	I	
D3	EUMI	4115	F	A	—	Dead	
F3	EUMI	3205	F	A	—	Dead	
H3	EUMI	2455	m	A	R	I	
J3	EUMI	2444	m	A	R	I	
K3	EUMI	3311	m	A	34	I	
M3	PEMA	2303	F	A	18	I	
D4	EUMI	2452	F	A	R	I	
F4	PEMA	3312	F	A	15	I	
H4	EUMI	3313	F	A	37	I	-
J4	EUMI	5500	F	A	—	Dead	
K4	EUMI	4043	m	A	R	I	
L4	EUMI	3314	m	A	32	I	
E4	PEMA	4150	F	A	17	I	
G6	PEMA	3315	m	A	19	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. 7-1-3-12-14

Grid Name Greasewood Sage Grid A Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 (0900) Date, time traps checked 9/18/76 (0915)

Last toe clip # used on previous day 4215 Field Analyst(s) DCK

Project 83 QA Check Lum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	3141	M	A	R	I	—
A10	EUMI	3104	F	A	R	I	poor condition
A12	EUMI	6104	F	A	D	I	—
A13	EUQU	4155	M	A	R	I	poor condition
B13	EUQU	4153	M	A	R	I	" "
C13	EUMI	2043	M	A	R	I	—
J13	EUMI	6105	M	A	D	I	—
M13	EUMI	4125	M	A	R	I	—
J12	EUQU	3420	F	A	R	I	poor
H12	EUQU	4132	F	A	R	I	—
D12	SPLA	3215	M	A	R	I	—
B12	PEMA	3214	M	A	R	I	—
C11	EUMI	4133	F	A	R	I	—
H11	EUMI	4212	F	A	R	I	—
L10	EUMI	2424	M	A	R	D	—
K10	PEMA	2215	M	A	R	D	—
I10	EUMI	4120	F	A	R	D	—
H9	EUMI	4053	M	A	R	D	—
G10	PEMA	3213	M	A	R	I	—
E10	EUQU	3223	M	A	R	I	—
D10	EUMI	2151	M	A	R	I	—
D8	EUMI	3120	F	A	R	I	—
D7	EUMI	3304	F	A	—	D	—
E8	EUMI	4134	M	A	R	I	—
E8	EUMI	4202	M	A	R	I	—
F8	EUMI	3212	F	A	R	I	—
G7	PEMA	6106	M	A	—	D	—
H8	PEMA	3230	F	A	—	D	—
H7	EUMI	4221N	M	A	30	I	poor
J8	EUMI	4102	M	A	R	I	—
J7	EUMI	4223N	F	A	30	I	—

*Key taxonomic characters, physical condition of animal, etc.

060175

ecology consultants, inc.

Sheet 2 of 3 File No: 83.C.5.1.2.14

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Grassland Grid A Sample Period 9 Trap Night 4

Date, time traps set 9/17/96 Date, time traps checked 9/18/96

Last toe clip # used on previous day 3315 Field Analyst(s) NSR

Project 83 QA Check Lum 9-18-96

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	3223	M	A	R	I	—
C1	EUMI	1713	F	A	R	I	—
D1	EUMI	3452	F	A	R	I	—
J1	EUMI	12115	M	A	—	I	— need w't
L1	PEMA	6666	F	A	—	Dead	—
M1	EUMI	3321 N	F	A	31	I	—
M2	PEMA	3233	F	A	R	I	
L2	EUMI	6667	M	A	—	Dead	—
K2	PEMA	0245	F	A	18	I	—
J2	EUMI	2455	M	A	R	I	—
D2	EUMI	3322 N	F	A	29	I	—
C2	EUMI	3004	F	A	31	I	—
B1	EUMI	3240	M	A	R	I	—
A3	EUMI	3323 N	M	A	30	I	—
B3	EUMI	3250	M	A	R	I	— poor condition
C3	EUMI	1153	M	A	R	I	
D3	EUMI	6668	F	A	—	Dead	
F3	PEMA	4035	M	A	R	I	
H3	EUMI	3203	M	A	31	I	34 [illegible]
J3	PEMA	3200	M	A	R	I	—
K3	EUMI	3151	M	A	R	I	—
M3	EUMI	4041	M	A	R	I	poor condition
K4	EUMI	3042	M	A	R	I	—
J4	EUMI	3202	M	A	R	I	tail cut
I4	EUMI	3245	F	A	R	I	—
E4	EUMI	3205	F	A	—	Dead	marked dead 9/17
D4	EUMI	9145	M	A	R	I	—
D5	PEMA	3033	F	A	R	I	bot fly scar
C5	EUMI	4144	F	A	R	I	—
E6	PEMA	3324 N	M	A	12	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greasewood Sag Grid A Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 (0900) Date, time traps checked 9/18/76 (0915)

Last toe clip # used on previous day 4215 Field Analyst(s) dck

Project 83 QA Check Gum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
L8	EUMI	4224N	M	A	31	I	—
K6	EUMI	4225N	M	A	29	I	—
J6	EUMI	41143	M	A	R	I	poor
J5	PEMA	3135	M	A	17	I	—
H6	EUMI	4043	M	A	R	I	—
G6	EUMI	41151	F	A	R	I	poor
F6	EUMI	4240	M	A	R	I	—
D6	EUMI	3252	F	A	R	I	—
B6	EUMI	4204	M	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 File No: 83.6.1.2.14

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood Loop Grid A Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 (0915) Date, time traps checked 9/19/76 (0900)

Last toe clip # used on previous day 4232 Field Analyst(s) dck

Project 83 QA Check bmw 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
C13	EUMI	4223N	F	A	28	I	—
L13	EUQU	3211	M	A	R	I	—
M13	EUMI	2413	M	A	R	I	—
L12	EUMI	2014	F	A	R	I	—
K12	EUQU	4234N	M	A	14	I	—
H10	EUQU	4132	F	A	R	I	—
F10	EUQU	3223	M	A	R	I	—
H11	EUMI	4212	F	A	R	I	—
L11	EUMI	4121	F	A	R	I	—
L10	EUMI	1241	M	A	28	I	—
I10	EUMI	1223	M	A	R	I	—
H9	PEMA	6110	F	A	R	I	—
G10	EUMI	3202	M	A	R	I	—
E9	EUMI	4235N	M	A	27	I	—
D10	PEMA	3213	M	A	R	I	—
C8	PEMA	6107	M	A	—	D	—
D7	PEMA	4142	M	A	R	I	—
E8	PEMA	3324	M	A	R	D	—
F8	PEMA	4141	F	A	R	I	—
G7	EUMI	4241N	M	A	31	I	—
H8	PEMA	6108	F	A	—	D	—
J7	EUMI	3212	F	A	R	I	—
L8	PEMA	4242N	F	A	13	I	—
M6	EUMI	4144	M	A	R	I	—
K6	EUMI	4243N	M	A	33	I	—
J6	PEMA	2131	M	A	14	I	—
J5	PEMA	2454	F	A	R	I	—
G6	EUMI	3412	M	A	R	I	—
F6	EUMI	4253N	M	A	30	I	—
E6	PEMA	2451	N	F	A	14	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 — SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Greenwood Log Grid A Sample Period 9 Trap Night 5

Date, time traps set 7/18/76 915 Date, time traps checked 7/19/76 900

Last toe clip # used on previous day 3334 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	3054	F	A	R	I	—
B1	EUMI	1134	F	A	32	I	—
D1	EUMI	2452	F	A	R	I	poor condition
F1	EUMI	[illegible]	M	A	30	I	—
H1	EUMI	2444	M	A	30	I	—
J1	EUMI	4405	M	A	R	I	—
L1	EUMI	3203	M	A	R	I	poor condition
M1	EUMI	3031	F	A	36	I	—
L2	EUMI	[illegible]	F	A	R	I	—
J2	EUMI	(12)15	M	A	31	I	—
H2	PEMA	6230	F	A	—	Dead	—
O2	EUMI	3245	F	A	R	I	—
C2	EUMI	2111	F	A	34	I	—
B2	EUMI	2142	F	A	R	I	poor condition
A2	EUMI	1059	M	A	33	I	—
A4	EUMI	[illegible]	M	A	31	I	poor condition
B3	PEMA	6798	F	A	—	Dead	—
C3	PEMA	4204	M	A	R	I	—
D3	PEMA	3552	F	A	16	I	—
F3	PEMA	[illegible]	F	A	22	I	—
J3	PEMA	3334	F	A	13	I	—
K3	EUMI	3151	M	A	R	I	—
I4	PEMA	3200	M	A	R	I	—
H4	EUMI	4144	F	A	R	I	poor condition
G4	PEMA	4031	M	A	R	I	poor condition
F4	EUMI	6997	M	A	—	(dead)	poor condition
E4	EUMI	1153	M	A	R	Dead	poor condition (clo
D4	EUMI	2445	M	A	R	I	—
B4	EUMI	2451	M	A	R	I	—
D5	EUMI	[illegible]	F	A	R	I	—
D5	EUMI	3120	F	A	R	Dead	—
F5	PEMA	3033	F	A	R	I	—

* Key taxonomic characters, physical condition of animal, etc

070/060175

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name South P-J Grid B Sample Period Sept 76-9 Trap Night 1

Date, time traps set 0930 9-14-76 Date, time traps checked 0930 9-15-76

Last toe clip # used on previous day 4101 Field Analyst(s) McGuire - Schiller

Project 83 (Bag wt. 18 g) QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	4102N	♂	A	29	I	
A-2	EUMI	4103N	♂	A	32	I	
A-6	EUMI	4104N	♂	A	32	I	
A-8	PEMA	4105N	♀	J	15	I	
A-12	EUMI	2205	♂	A	—	I	weak
B-12	EUMI	0101	♀	A	—	I	
B-10	EUMI	2033	♀♂	A	—	I	almost dead
B-8	EUMI	0251	♂	A	—	—	
B-6	EUMI	2410	♂	A	—	I	
B-4	SPLA	3055	♂	A	—	I	
B-3	EUMI	2033	♂	A	—	I	
B-1	EUMI	3022	♂	A	—	I	
C-2	EUMI	3150	♂	A	—	I	
C-4	EUMI	3035	♀	A	—	I	
C-8	EUMI	3032	♂	A	—	I	
C-12	EUMI	2054	♀	A	—	I	
D-13	EUMI	2441	♂	A	—	I	
D-11	EUMI	0042	♀	A	—	I	
D-10	EUMI	0402	♀	A	—	I	
D-8	EUMI	2021	♂	A	—	I	
D-7	EUMI	1123	♀	A	—	I	
D-5	EUMI	2102	♂	A	—	I	
F-3	EUMI	3440	♀	A	30	I	
F-4	EUMI	2045	♂	A	27	I	
F-8	EUMI	1221	♀	A	48	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ac consultants, inc.

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name South PT Grid B Sample Period Sept 76-9 Trap Night 1

Date, time traps set 0930 9-14-76 Date, time traps checked 0930 9-15-76

Last toe clip # used on previous day 3440 Field Analyst(s) McGuire - Schiller

Project 83 (Bag wt 12 g) QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-1	EUMI	0204	♀	ad	35	I	
K-1	EUMI	3450N	♀	ad	30	I	
L-2	PEMA	4011N	♀	ad	18	I	
M-1	PETR	1024	♀	ad	26	I	
M-2	PETR	4012N	♀	ad	12	I	
L-3	PETR	4013N	♂	ad	20	I	
L-4	PETR	2140	♂	ad	18	I	
L-6	EUQU	4035	♂	ad	44	I	
M-8	EUMI	4014N	♂	ad	32	I	
M-12	PETR	4015N	♀	ad	20	I	
L-13	EUQU	3120	♀	ad	48	I	
K-13	EUQU	4021N	♂	ad	50	I	
J-13	EUQU	2201	♀	ad	52	I	
J-12	PEMA	4030N	♀	ad	18	I	
K-12	EUMI	4031	♂	ad	31	I	
K-11	SPLA	4023N	♂	ad	128	I	
K-10	PETR	4024N	♀	ad	18	I	
K-8	EUMI	1115	♀	ad	38	I	
K-6	EUQU	2110	♀	ad	46	I	
L-4	EUMI	2130	♂	ad	32	I	
L-5	EUQU	4025N	♂	ad	46	I	
L-6	EUMI	0150	♀	ad	38	I	
J-6	EUMI	3310	♂	ad	29	I	
I-7	PETR	2104	♂	ad	—	I	
J-10	PETR	2022	♀	ad	20	I	
H-13	EUMI	0120	♂	ad	28	I	
F-13	EUMI	0043	♂	ad	28	I	
F-11	PETR	4116N	♂	ad	20	I	
G-9	PEMA	3420	♂	ad	16	I	
H-7	EUMI	3040	♂	ad	30	I	
H-6	NICI	4120N	♂	ad	146	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name South P-J Grid B Sample Period Sept 76-9 Trap Night 1

Date, time traps set 0930 9-14-76 Date, time traps checked 0930 9-15-76

Last toe clip # used on previous day — Field Analyst(s) McGuire

Project 83 Bag wt. 12g QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
G-5	PFRA	4130N	♀	ad	18	I	
H-3	PFTR	2350	♂	ad	22	I	
H-1	[illegible]	1100	♂	ad	40	I	
F-1	[illegible]	4101	♀	ad	18	I	
F-2	FUMI	3015	♀	ad	32	I	
E-9	EUMI	2023	♂	ad	38	I	
E-10	SPLA	2050	♀	ad	—	I	
F-10	PFMA	4140N	♂	Ad	20	I	
F-9	EUMI	0252	♀	ad	38	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 1 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ South Grid B Sample Period 9 Trap Night 2

Date, time traps set 1000 9-15-76 Date, time traps checked 1000 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-RBOSP QA Check Jun 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-1	EUMI	3110	M	A	30	I	
L-1	EUMI	4005	M	A	34	I	
M-1	EUQU	4200	M	A	48	I	
L-3	EUQU	2404	F	A	44	I	
L-4	EUMI	0120	M	A	28	I	
M-10	EUQU	4150n	F	A	40	I	
M-11	EUQU	4014	M	A	46	I	dead in trap
M-13	EUQU	4021	M	A	46	I	
K-13	PEMA	0355	M	A	18	I	
K-10	EUQU	1221	F	A	48	I	
L-6	EUQU	4035	M	A	42	I	
K-6	EUQU	1131	M	A	50	I	
K-9	NIC I	4210N	M	A	178	I	
J-13	PETR	4220N	F	A	18	I	
J-10	EUQU	3101	M	A	40	I	
I-6	EUMI	2120	M	A	30	I	
I-5	NIC I	4120	M	A	130	I	
F-2	EUMI	3440	F	A	34	I	
F-1	EUMI	3015	F	A	28	I	
H-3	EUMI	0224	F	A	32	I	
H-4	EUMI	4234N	F	A	32	I	
G-5	PETR	2104	M	A	20	I	
G-6	EUMI	0100	F	A	32	I	
G-7	EUMI	2021	M	A	—	I	
H-7	EUMI	4031	M	A	28	I	
G-10	PEMA	3020	M	A	17	I	
F-13	PEMA	1212	F	A	19	I	
F-11	PEMA	4240N	F	A	18	I	
I-10	PEMA	4250N	M	A	22	I	
E-10	EUMI	0243	M	A	30	I	
E-9	EUMI	1115	F	A	38	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-T South Grid B Sample Period 9 Trap Night 2

Date, time traps set 1000 9-15-76 Date, time traps checked 1000 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire - Schiller

Project 83-CROSP Log ut 19 QA Check slmw 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	EUMI	3035	F	A	30	I	Torpor
A-6	EUMI	2304	F	A	31	I	Torpor
A-13	EUMI	2203	M	A	28	I	
B-12	EUMI	2054	M	A	29	I	Torpor
B-11	SPLA	2050	F	A	151	I	
B-8	SPLA	3055	M	A AT	131	I	
B-2	EUMI	3150	M	A	29	I	Torpor
B-1	EUMI	4201N	M	A	26	I	
C-1	EUMI	0113	F	A	28	I	
C-6	EUMI	0252	F	A	35	I	pregnant? torpor
C-10	EUMI	0402	F	A	28	I	Torpor
C-11	EUMI	0301	F	A	30	I	
C-12	EUMI	4202N	F	A	34	I	
C-13	PEMA	1145	M	A	18	I	
D-13	EUMI	0043	M	A	26	I	
D-12	EUMI	3025	M	A	—	I	escaped before weighing
D-5	EUMI	2033	M	A	29	I	
D-4	EUMI	2045	M	A	26	I	Torpor
D-2	PEMA	4203N	M	A	14	I	
D-1	EUMI	2014	M	A	27	I	
F-5	PEMA	4204N	F	A	13	I	

*Key taxonomic characters, physi l condition of animal, etc.

070/060175

ecology consultants, Inc

Sheet 3 of 3 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J South Grid B Sample Period 9 Trap Night 2

Date, time traps set 1000 9-15-76 Date, time traps checked 1000 9-16-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 93 QA Check Lrm 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F-8	EUMI	2410	M	A	33	I	
I-7	PEMA	4310N	F	A	16	I	
F-6	EUMI	2102	M	A	32	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J South Grid B Sample Period 9 Trap Night 3

Date, time traps set 1100 9-16-76 Date, time traps checked 1100 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
J-1	EUMI	4320N	M	A	32	I	
F-1	EUMI	3110	M	A	30	I	
M-1	EUMI	4330N	M	A	29	I	
A-6	EUQU	0423	F	A	42	I	
E-8	EUQU	4340N	F	A	38	I	
M-11	NICI	4210	M	A	168	I	Dead in Trap
E-13	EUQU	3120	F	A	42	I	
L-13	EUMI	4350N	F	A	28	I	
L-4	EUQU	0121	F	A	44	I	
K-6	PETR	2140	M	A	16	I	
K-10	EUQU	4025	M	A	42	I	
K-11	PETR	2022	F	A	21	I	
J-12	PETR	4110	M	A	18	I	
J-13	EUQU	2201	F	A	44	I	
H-13	PEMA	1212	F	A	12	I	
H-12	PEMA	1211	M	A	—	I	
I-9	EUQU	4410N	F	A	40	I	
J-8	EUQU	0424	M	A	48	I	
I-6	NICI	4120	M	A	108	I	
J-4	EUMI	2130	M	A	32	I	
H-3	EUQU	4035	M	A	39	I	
H-2	EUQU	1114	M	A	46	I	
F-2	EUMI	0124	F	A	32	I	
G-5	EUMI	4420N	M	A	30	I	
H-9	EUQU	1221	F	A	48	I	
G-9	PEMA	4240	F	A	16	I	
F-5	EUMI	2045	M	A	30	I	Dead in Trap

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PT South Grid B Sample Period 9 Trap Night 3

Date, time traps set 1100 9-16-76 Date, time traps checked 1100 9-17-76

Last toe clip # used on previous day on list Field Analyst(s) McGuire

Project 83 QA Check Lum 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	PEMA	4205N	F	A	16	I	
A-6	PEMA	1412	M	A	14	I	
A-8	EUMI	4301N	M	A	29	I	
A-10	EUMI	2205	M	A	4	I	DEAD; tick
A-12	EUMI	4033	M	A	26	I	Torpor
A13	PEMA	4302N	M	A	14	I	
B12	SPLA	2050	F	A	144	I	
B6	SPLA	3055	M	A	125	I	
B1	EUMI	3022	M	A	47	I	
C-4	EUMI	2033	M	A	26	I	
C-6	EUMI	0252	F	A	31	I	
C-8	EUMI	2021	M	A	27	I	
C-10	EUMI	3101	F	A	36	I	
C-12	PEMA	1145	M	A	15	I	
D-12	EUMI	3032	M	A	31	I	
D-10	EUMI	0251	M	A	28	I	
E-7	PEMA	4130	F	A	27	I	
D-5	PEMA	3250	M	A	19	I	
D-4	EUMI	3035	F	A	28	I	
D-1	EUMI	3310	M	A	28	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-I South Grid B Sample Period 9 Trap Night 4

Date, time traps set 0900 9-17-76 Date, time traps checked 0900 9-18-76

Last toe clip # used on previous day 4420 Field Analyst(s) McGuire

Project 83-RBOSP QA Check [illegible] 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E-1	PEMA	4430	M	A	40	I	
D-1	PEMA	4440	F	A	43	I	
M-2	PEMA	4450	M	A	46	I	
[illegible]	PEMA	3211	F	A	31	I	
M-8	PETR	2212	F	A	18	I	
L-3	PETR	4012	F	A	18	I	
J-12	PEMA	0120	M	A	25	I	
K-12	PEMA	4031	M	A	28	I	
[illegible]	PEMA	2213	M	A	17	I	
[illegible]	PEMA	3211	M	A	16	I	
[illegible]	[illegible]	3040	M	A	31	I	
E-7	PEMA	2214	F	A	35	I	
I-4	PEMA	2215	M	A	16	I	
H-5	PEMA	3150	M	A	31	I	
H-1	PEMA	3110	M	A	32	I	
[illegible]	PEMA	2410	M	A	33	I	
M-9	PEMA	2021	M	A	30	I	
F-11	PEMA	3025	M	A	31	I	
E-9	PEMA	4240	M	A	18	I	
F-8	PEMA	1115	F	A	37	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J South Grid B Sample Period 9 Trap Night 4

Date, time traps set 0900 9-17-76 Date, time traps checked 0900 9-18-76

Last toe clip # used on previous day 4302 Field Analyst(s) McGuire

Project 83-RBOSP QA Check Lum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-10	EUMI	4303N	M	A	4	I	Dead
B-12	SPLA	4023	M	A	127	I	
B-3	EUMI	2033	M	A	27	I	
B-2	EUMI	0204	F	A	26	I	
B-1	EUMI	3210	F	A	31	I	
C-6	EUMI	1123	M	A	30	I	
C-10	EUMI	4304N	M	A	41	I	
C-12	SPLA	2055	F	A	142	I	
C-13	EUMI	3032	M	A	31	I	
D-10	EUMI	3102	F	A	32	I	
D-7	PEMA	4305N	F	A	19	I	
D-6	PEMA	2104	M	A	19	I	
D-5	EUMI	3035	F	A	29	I	
E-5	EUMI	2052	M	A	31	I	
D-4	SPLA	3055	M	A	125	I	
D-1	EUMI	0103	F	A	30	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name RT South Grid B Sample Period 9 Trap Night 5

Date, time traps set 0845 9-18-76 Date, time traps checked 0900 9-19-76

Last toe clip # used on previous day 2215 Field Analyst(s) McGuire

Project RBOSP-83 QA Check Sum 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
K-1	EUMI	2221N	F	A	32	I	
M-1	EUQU	2222N	M	A	46	I	Dead in Trap
M-2	EUMI	3550	F	A	30	I	
[illegible]	EUQU	2223N	M	A	45	I	Dead in Trap
L-4	EUQU	0421	F	A	46	I	
[illegible]	EUQU	2224N	M	A	40	I	
[illegible]	EUMI	2225N	F	A	32	I	
M-8	NIC-I	4210	M	A	—	I	
M-11	EUQU	2231N	M	A	38	I	Dead in Trap
K-12	EUMI	4300	M	A	30	I	
J-10	EUQU	4025	M	A	40	I	
J-13	PEMA	0355	M	A	18	I	
F-13	EUMI	2232N	M	A	33	I	
H-11	EUMI	1115 ~~1215~~	F	A	38	I	
H-7	PETR	2104	M	A	21	I	
H-3	EUMI	3015	F	A	31	I	
H-1	PEMA	2233N	M	A	17	I	
F-1	EUMI	2234N	M	A	32	I	
G-5	EUMI	2130	M	A	33	I	
F-6	EUMI	2202	M	A	35	I	
G-6	EUMI	2235N	M	A	35	I	
G-7	EUQU	0424	M	A	50	I	
G-8	EUMI	3040	M	A	31	I	
G-9	PEMA	4240	F	A	—	I	
F-9	EUQU	1221	F	A	48	I	
F-11	EUMI	2023	M	A	36	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P-J South Grid B Sample Period 9 Trap Night 5

Date, time traps set 0845 9-18-76 Date, time traps checked 0900 9-19-76

Last toe clip # used on previous day 4305 Field Analyst(s) McGuire

Project RBOSP-83 QA Check Sum 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-4	PEMA	4205	F	A	15	I	
A-6	EUMI	2202	M	A	23	I	
A-12	EUMI	4401N	F	A	U	I	Dead
B-3	EUMI	4201	M	A	27	I	
B-1	EUMI	3022	M	A	29	I	
C-12	EUMI	2054	M	A	30	I	
D-10	EUMI	4402N	F	A	39	I	pregnant
E-9	SPLA	4403N	M	A	151	I	
D-9	EUMI	0106	F	A	37	I	
D-6	NEOT	4404N	M	A	153	I	
E-5	PETR	4405N	M	A	26	I	
D-2	EUMI	2251N	M	A	28	I	
D-1	EUMI	3310	M	A	31	I	

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ North Grid C Sample Period 9 Trap Night 1

Date, time traps set 9/14/76 (1530) Date, time traps checked 9/15/76 (1545)

Last toe clip # used on previous day 3102 Field Analyst(s) DCK

Project 83 QA Check Lum 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F1	EUMI	1032	F	A	31	I	—
H1	EUMI	0255	M	A	29	I	—
K1	PEMA	3103N	F	A	14	I	—
M1	EUMI	1243	F	A	34	I	—
M2	EUMI	3042	M	A	34	I	—
M3	EUMI	1033	F	A	34	I	—
M6	PEMA	3023	F	A	19	I	—
K2	EUMI	2042	F	A	34	I	—
K3	EUMI	3103N	F	A	30	I	—
K4	EUMI	2204	F	A	35	I	—
K10	PEMA	3105N	F	A	14	I	—
J13	EUQU	2330	F	A	47	I	—
I9	PEMA	3201M	M	A	15	I	—
J7	EUMI	4030	M	A	31	I	—
J4	EUQU	1122	M	A	46	I	—
J3	EUMI	3202N	M	A	30	I	—
G4	EUMI	0235	M	A	32	I	—
G5	EUMI	1052	F	A	33	I	—
G7	EUMI	3002	M	A	34	I	—
H10	EUQU	(14)101	F	A	61	I	weight is correct
G10	Neci	6000	F	A	—	D	—
H11	Petr	3204N	M	A	18	I	poor condition
E13	PEMA	3203N	M	A	20	I	—
E10	EUMI	2250	F	A	32	I	—
E9	EUQU	0434	M	A	52	I	—
E5	EUMI	1002	M	A	32	I	—
E4	PETR	3205N	M	A	15	I	—
D1	PEMA	3301N	M	A	17	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name Pinyon Juniper Grid C Sample Period 9 Trap Night 2

Date, time traps set 9/15/76 (1530) Date, time traps checked 9/16/76 (1300)

Last toe clip # used on previous day 3301 Field Analyst(s) DCK

Project 83 QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
E1	EUMI	3302N	M	A	32	I	—
J1	EUMI	3110	F	A	R	I	—
L1	EUMI	3303N	F	A	34	I	—
M1	PEMA	3304N	M	A	14	I	—
M3	PEMA	3305N	F	A	19	I	—
M4	EUQU	4031N	M	A	46	I	—
M6	PETR	3320	F	A	19	I	—
M8	EUQU	4032N	M	A	50	I	—
M10	PETR	4033N	M	A	19	I	—
M12	EUQU	4034N	M	A	40	I	—
M13	EUQU	4035N	F	A	46	I	—
L4	EUMI	2021	M	A	31	I	—
K10	PEMA	4041N	M	A	19	I	—
K12	PEMA	4042N	M	A	17	I	—
J7	EUQU	1122	M	A	R	I	—
J6	EUMI	4043N	M	A	32	I	—
H2	EUMI	2035	F	A	28	I	—
G5	PEMA	3140	M	A	R	I	—
H6	EUMI	0204	M	A	31	I	—
G8	EUQU	1342	F	A	R	I	—
H9	EUQU	3032	F	A	41	I	—
H11	PEMA	4044N	F	A	20	I	b-t #1
H12	EUQU	2330	F	A	R	I	—
E13	PEMA	3120	F	A	R	I	not Petr

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PT North Grid C Sample Period 9 Trap Night 1

Date, time traps set 15 32 9/14/76 Date, time traps checked 15 45 9/15/76

Last toe clip # used on previous day 3102 Field Analyst(s) NSR

Project 83 QA Check [illegible] 9-15-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	PEMA	3401N	M	A	14	I	—
A2	PEMA	3402N	m	A	12	I	—
A5	EUMI	1151	F	A	34	I	
A4	EUQU	2403	F	A	50	I	—
A6	EUQU	0414	m	A	51	I	—
A7	EUMI	0212	m	A	26	I	—
A10	EUMI	0120	F	A	28	I	—
A11	EUQU	3403N	M	A	45	I	—
A12	EUQU	0404	F	A	46	I	—
A13	PEMA	2132	F	A	16	I	—
B13	PEMA	3404N	m	A	20	I	—
B11	EUMI	1113	F	A	34	I	—
B10	EUQU	1342	F	A	46	I	—
B8	EUQU	3032	F	A	42	I	—
B4	EUQU	0333	F	A	34	I	—
B3	PETR	3405	M	A	19	I	—
B1	EUQU	1353	F	A	32	I	—
C1	EUMI	3110	F	A	28	I	—
C11	EUQU	0263	F	A	52	I	—
D12	PEMA	3120N	F	A	19	I	bot flies
D11	PETR	3130N	M	A	20	I	—
D8	PEMA	3140N	m	SubA	11	I	—
D6	PEMA	2(14)55	m	A	13	I	2 toe clips on 1 ft - bc
D3	EUMI	3150N	m	A	30	I	—
D2	PEMA	3210	m	A	16	I	bot flies

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No: 3120

Grid Name North PJ Grid C Sample Period 9 Trap Night 2

Date, time traps set 1530; 15 Sept 76 Date, time traps checked 1500 16 Sept 76

Last toe clip # used on previous day 3110 Field Analyst(s) NSR BEK

Project 83 QA Check [illegible] 9-16-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A-1	EUMI	0300	F	A	31	I	—
A-2	PEMA	3220 N	F	A	16	I	—
A-4	EUMI	0145	M	A	22	I	—
A-10	EUMI	0435	F	A	23	I	—
A-11	PEMA	3230 N	M	A	15	I	—
A-12	PETR	3240 N	M	A	18	I	—
A-13	PEMA	3250 N	M	A	16	I	—
A-15	PEMA	3310 N	M	A	15	I	—
B-13	PEMA	2132	F	A	R	I	—
B-15	EUMI	1113	F	A	31	I	—
B-8	EUQU	0253	F	A	R	I	—
B-4	EUMI	1052	F	A	R	I	—
B-2	PEMA	1311	M	A	14	I	—
B-1	PEMA	2011	F	A	14	I	—
C-2	EUMI	1353	F	A	Escape	I	—
C-4	EUMI	0333	F	A	R	I	—
C-6	EUQU	2403	F	A	49	I	—
C-12	PEMA	3320	F	A	16	I	—
D-12	EUMI	2250	F	A	R	I	—
D-11	EUQU	0444	F	A	49	I	—
D-10	PEMA	3330 N	M	A	17	I	—
E-10	PEMA	3340 N	F	A	22	I	—
E-9	PEMA	3350 N	F	A	19	I	—
E-5	EUMI	0234	M	A	R	I	—
D-3	EUMI	3002	M	A	R	I	—
D-2	PEMA	2033	M	A	16	I	—
D-1	EUMI	3410 N	M	A	39	I	—
E-1	EUMI	3042	M	A	R	I	fleas
F-12	EUQU	(14)101	F	A	56	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ (North) Grid C Sample Period 9 Trap Night 3

Date, time traps set 9/16/76 (1600) Date, time traps checked 9/17/76 (1320)

Last toe clip # used on previous day 4044 Field Analyst(s) dc lc

Project 83 QA Check [illegible] 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F1	PEMA	4041N	M	J	12	I	-
J1	PEMA	3113	F	A	R	I	was 3103 but 2 animals have same toe clip.
M1	PEMA	4051N	F	A	14	I	-
M3	EUMI	3400	F	A	32	I	-
M4	PEMA	4052N	M	A	18	I	-
M5	PEMA	4053N	M	A	17	I	hot fly
M10	EUQU	4032	M	A	R	I	-
M9	EUQU	4135	F	A	R	I	-
M13	EUQU	4034	M	A	R	I	-
L12	PETR	4054N	F	A	17	I	-
L11	PEMA	3305	F	A	R	I	-
L4	EUQU	4031	M	A	R	I	-
L3	EUMI	2021	M	A	R	I	-
L2	EUMI	3303	F	A	R	I	-
K3	EUQU	4055N	F	A	38	I	-
K8	PEMA	4044	F	A	R	I	-
K10	PEMA	4101N	M	A	16	I	-
L13	PETR	3105	F	A	R	I	-
J13	EUQU	2330	F	A	R	I	-
J12	PEMA	4042	M	A	R	I	-
F6	EUMI	2204	F	A	R	I	-
J2	EUMI	0255	M	A	R	I	-
G5	EUQU	1122	M	A	R	I	-
G9	EUMI	2250	F	A	R	I	-
H10	EUQU	1342	F	A	R	I	-
F12	PEMA	3230	M	A	R	I	-
E9	PEMA	2(4)55	M	A	14	I	-
E6	EUMI	4102N	F	A	27	I	-
E4	PEMA	3304	M	A	R	I	-
E2	EUMI	1032	F	A	R	I	-

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ Meadow Grid C Sample Period 9 Trap Night 3

Date, time traps set 7/6/76 1600 Date, time traps checked 9/12/76 1330

Last toe clip # used on previous day 3410 Field Analyst(s) USR

Project 83 QA Check [illegible] 9-17-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional Notes*
A1	EUMI	0399	F	A	R	I	-
A2	EUMI	1434	M	A	—	I	- got wt
A3	EUOU	3420N	F	A	45	I	- J
A4	EUMI	0435	F	A	R	I	-
A6	EUOU	1352	F	A	38	I	-
A10	EUMI	1411	M	A	30	I	-
A12	EUMI	0120	F	A	R	I	-
B15	PEMA	2132	F	A	R	I	-
B12	EUOU	2135	M	A	50	I	—
B11	EUMI	2133	M	A	31	I	— +
B10	EUMI	0253	F	A	R	I	very thin - ck weight is ? sus
B4	EUO	2403	F	A	R	I	-
B3	PETR	3405	M	A	R	I	-
B1	EUMI	1353	F	A	R	I	-
C2	EUMI	0235	M	A	R	I	-
C3	EUOU	3110	M	A	—	I	got wt +
C4	EUOU	3430N	F	A	48	I	-
C5	EUOU	3032	F	A	R	I	-
C13	EUOU	0494	F	A	R	I	—
D13	EUMI	3440N	M	A	36	I	-
D12	EUMI	0422	M	A	33	I	flea,
D11	EUOU	0434	M	A	R	I	—
D10	PEMA	3450N	F	A	15	I	-
D2	PEMA	3301	M	A	R	I	—
D1	PEMA	4011N	F	A	13	I	-

A5 C5

*Key taxonomic characters, physical condition of animal, etc.

070/060175

File No: 83.C.5.1.2.16

Sheet 1 of 2

SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name P) (North Grid C Sample Period 9 Trap Night 4

Date, time traps set 9/17/76 (1330) Date, time traps checked 9/18/76 (1050)

Last toe clip # used on previous day 4102 Field Analyst(s) dck

Project 83 QA Check tum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F1	EUMI	3302	M	A	R	I	—
J1	EUMI	3042	M	A	R	I	—
L1	EUMI	2222N	M	A	25	I	—
M1	PEMA	4103N	M	A	13	I	—
M2	PEMA	4104N	F	A	14	I	—
M3	EUQU	4031	M	A	R	I	—
M4	EUMI	1033	F	A	33	I	—
M6	EUQU	4055	F	A	R	I	—
M8	PETR	2320	F	A	R	I	—
M10	EUQU	4037	M	A	R	I	—
L11	PETR	4054	F	A	R	I	—
L3	PEMA	3023	F	A	R	I	—
K3	EUMI	3303	F	A	R	I	—
K6	PEMA	4105N	M	A	17	I	—
K8	EUQU	1122	M	A	R	I	—
K10	PEMA	4042	M	A	R	I	—
K11	PETR	3105	F	A	13	I	could be 3 mo
K12	EUQU	4034	M	A	R	I	—
K13	PEMA	3305	F	A	R	I	—
J10	EUMI	0014	F	A	30	I	—
I9	PEMA	4201N	F	A	17	I	—
I6	PEMA	3201	M	A	R	I	—
I5	EUMI	4043	M	A	R	I	—
I3	EUQU	4202N	F	A	46	I	—
H3	PEMA	4203N	M	A	13	I	—
G4	PEMA	4204N	M	A	17	I	—
G5	PEMA	4205N	M	A	15	I	—
G7	PETR	3205	M	A	R	I	—
E10	PEMA	4301N	F	A	17	I	—
E8	EUMI	1411	M	A	R	I	—
E6	EUMI	1231	M	A	R	I	—
E2	EUMI	3110	F	A	R	I	—
D1	EUMI	1032	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

ecology consultants, inc.

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name CT(AL) Grid C Sample Period 9 Trap Night 4

Date, time traps set 7/14/76 1330 Date, time traps checked 7/15/76 1250

Last toe clip # used on previous day 4102 Field Analyst(s) MES

Project 83 QA Check Sum 9-18-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes ✓S
A1	EUMI	1442	M	A	R	I	–
A2	PEMA	1311	M	A	R	I	–
A4	EUQU	0414	M	A	R	I	– Heas
A6	EUQU	1352	F	A	R	I	–
A10	EUMI	1435	M	A	33	I	–
A11	EUMI	2133	M	A	R	I	–
A12	EUMI	0442	F	A	32	I	–
B13	EUMI	4012N	F	A	35	I	–
B12	EUQU	0444	F	A	R	I	–
B11	EUMI	0422	M	A	R	I	–
B10	PETR	3240	M	A	R	I	–
B8	EUMI	0455	F	A	R	I	–
B4	EUMI	0333	F	A	R	I	– 0335-EUMI
B3	PETR	3405	M	A	R	I	–
B2	EUMI	4012N	M	A	31	I	–
B1	EUQU	2410	M	A	—	Dead	–
C2	EUMI	2035	F	A	R	I	–
C3	PEMA	3350	F	A	R	I	–
C4	EUQU	3430	F	A	R	I	–
C6	EUQU	0434	M	A	R	I	–
C12	EUQU	2135	M	A	R	I	–
D13	EUMI	1412	F	A	—	I	escaped
E10	PEMA	4014N	M	A	12	I	Heas
D10	EUMI	2250	F	A	R	I	–
E9	PEMA	1344	F	A	11	I	–
E8	EUMI	4102	F	A	R	I	poor condition
D8	PEMA	3340	F	A	R	I	–
D7	PETR	4015N	F	A	19	I	–
D6	PEMA	4013N	M	A	18	I	–
D3	EUQU	2403	F	A	R	I	–
D2	EUMI	1353	F	A	R	I	–

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 1 of ___ SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET

Grid Name PJ (North Grid C Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 (1330) Date, time traps checked 9/19/76 (1415)

Last toe clip # used on previous day 4301 Field Analyst(s) dck

Project 83 QA Check Lsw 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
F1	EUMI	3103	F	A	R	I	—
J1	EUMI	3202	M	A	R	I	—
L1	EUMI	4302N	F	A	3.	I	—
M2	EUMI	4303N	F	A	33	I	—
M3	PEMA	4304N	M	A	—	D	—
M8	EUQU	4032	M	A	R	I	—
L13	EUQU	4034	M	A	R	I	—
L10	EUQU	4035	F	A	R	I	—
L8	PEMA	4305N	F	A	17	I	—
L6	PEMA	4401N	F	A	16	I	—
L2	EUMI	3303	F	A	R	I	—
K3	EUQU	4031	M	A	R	I	—
K6	PEMA	4402N	F	A	13	I	—
K9	EUMI	2204	F	A	R	I	—
K11	EUQU	1342	F	A	R	I	—
K13	PETR	4403N	F	A	14	I	—
J10	EUQU	2330	F	A	R	I	—
J11	PETR	3105	F	A	R	I	—
J9	EUMI	4020	M	A	R	I	—
I6	EUQU	1122	M	A	R	I	—
J5	EUMI	3002	M	A	R	I	—
J3	EUQU	4055	F	A	R	I	—
H3	PEMA	3023	F	A	R	I	—
G4	EUQU	4404N	F	A	16	I	—
G7	PETR	3205	M	A	R	I	—
H9	EUMI	1231	M	A	R	I	—
F10	PEMA	4301	F	A	R	I	—
F9	EUMI	2250	F	A	R	I	—
F7	EUMI	3042	M	A	R	I	—
F6	EUMI	2035	F	A	R	I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

Sheet 2 of 2 SMALL MAMMAL LIVE TRAPPING FIELD DATA SHEET File No. 83.C.3.7.8.76

Grid Name PJ North Grid C Sample Period 9 Trap Night 5

Date, time traps set 9/18/76 1330 Date, time traps checked 9/19/76 1415

Last toe clip # used on previous day 4021 Field Analyst(s) NSR

Project 83 QA Check Sum 9-19-76

Capt. Loc.	Species	Toe Clip No.	Sex	Age Class	Animal Weight (gm)	Reprod. Status	Additional* Notes
A1	EUMI	1434	M	A	30	I	—
A3	EUQU	3420	F	A	R	I	—
A4	EUQU	2403	F	A	R	I	—
A6	EUQU	1352	F	A	R	I	—
A8	PETR	3840	M	A	R	I	Hear
A10	EUMI	2133	M	A	R	I	—
A11	EUMI	1411	M	A	R	I	—
A12	EUMI	0142	F	A	34	I	—
B13	EUMI	0120	F	A	R	I	—
B12	EUQU	4033	F	A	43	I	—
B11	EUQU	0434	M	A	R	I	—
B8	EUQU	3037	F	A	R	I	—
B3	EUQU	2110	M	A	51	I	—
B2	EUQU	1124	M	A	51	I	—
B1	EUQU	2123	F	A	48	I	—
C8	PETR	4015	F	A	R	I	—
C11	PEMA	4023	F	A	14	I	—
C12	EUQU	0444	F	A	R	I	—
D12	PEMA	3230	M	A	R	I	—
D11	PETR	3130	M	A	R	I	—
D10	PEMA	3250	M	A	R	I	—
E9	PEMA	4201	F	A	R	I	—
D8	PEMA	3450	F	A	R	I	—
D7	PEMA	4024	M	A	13	I	—
E4	PEMA	3340	F	A	R	I	—
D6	PEMA	4042	M	A	R	I	—
D7	PEMA	2033	M	A	—	Dead	—
D1	EUMI	1353	F	A		I	—

*Key taxonomic characters, physical condition of animal, etc.

070/060175

E10 ✓
98754

ecology consultants, inc.

2.3.4 Large Mammals

2.3.4.3 Results

2.3.4.3.1 Pellet Group Counts

Mule deer pellet group counts for summer 1976 accumulations were conducted September 12-16, 1976. The results of the inspection are presented in Table 2.3-49. No pellet groups were found on the transects located on Tract C-a (1, 5, 6, and 7) or on transect 13 south of the tract. The transect with the highest pellet group index over summer 1976 (Transect 12), was located in mixed brush vegetation at higher elevations southwest of Tract C-a. Transects west and north of Tract C-a exhibited pellet group indices that were half or less than that found on transect 12. Transects northwest of Tract C-a generally had lower pellet group indices than those transects located west or southwest of the tract.

Table 2.3-49. Big game pellet groups accumulated during summer 1976 on 13 transects on and near Tract C-a for RBOSP.

Transect Number	Pellet Groups Recorded	Pellet Groups Per Acre	Period of Accumulation (days)	Pellet Group Index 1/
1	0	0.0	103	0.0
2	2	34.8	104	0.3
3	2	34.8	103	0.3
4	1	17.4	103	0.2
5	0	0.0	103	0.0
6	0	0.0	103	0.0
7	0	0.0	103	0.0
8	2	34.8	103	0.3
9	1	17.4	104	0.2
10	3	52.3	103	0.5
11	3	52.3	103	0.5
12	6	104.5	100	1.0
13	0	0.0	104	0

1/ Pellet group index = $\frac{\text{Pellet groups/acre}}{\text{Accumulation period}}$

2.3.4.5 Large Mammal Raw Data

LARGE MAMMAL RAW DATA

SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET

Project: 83 Transect: 1 Plot Size: 100 Ft²

Location: E½ Sec 32 T6S R99W

Date Pellet Groups Initially Removed: 10/2 2/24 Survey No: Fall 76

Plot No.	Inspector: C L Kling Date: 14 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	not changed from previous except where noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	0	

Lum 9-23-

ECI

ecology consultants,

SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET

Project: 83 Transect: T-2 Plot Size: 100 ft²

Location: W½ Sec. 24 T1S. R100W

Date Pellet Groups Initially Removed: 5-[illegible]-75 Survey No: Fall 76

Plot No.	Inspector: C Ekling Date: 14 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	not changed from previous unless noted
2	1	
3	0	
4	1	new cache in the area
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	2	

bmw 9-23-76

ECI

ecology consultants,

Project: 83 Transect: 3 Plot Size: 100 ft²

Location: W½ Sec 19 T1S R99W

Date Pellet Groups Initially Removed: 5/18/75 Survey No: Fall 76

Plot No.	Inspector: CLKling. Date: 14 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous except where noted
2	0	stake almost washed out - drive it in again
3	0	
4	0	
5	1	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	1	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	2	

Sum 9-23-7

Project: 83 Transect: 1 Plot Size: 100 ft²

Location: W1/2 Sec 20 T1S R99W

Date Pellet Groups Initially Removed: 5-18-75 Survey No: Fall 76

Plot No.	Inspector: CL Kling Date: 14 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous except where noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	1	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	1	

bm 9-23-7

ECI

ecology consultants,

SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.c.6.4.2

Project: 83 Transect: 5 Plot Size: 100 Ft²

Location: Midpoint NHS 54 T2S R9W

Date Pellet Groups Initially Removed: 10/2-1/74 Survey No: Fall 76

Plot No.	Inspector: CLKling Date: 15 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	Not cleared from previous except where noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	0	

Ann 9-23-76

ECI

ecology consultants,

SINGLE TRANSECT PELLET GROUP COUNT FIELD DATA SHEET 83.c.6.4.2

Project: 83 Transect: 6 Plot Size: 100 ft²

Location: E 1/2 Sec 3 T. 2 S. R 99 W

Date Pellet Groups Initially Removed: 10/24/74 Survey No: Fall 76

Plot No.	Inspector: CL Kling Date: 15 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	not changed from previous except when noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	0	

bmw 9-23-76

ECI
ecology consultants

Project: 83 Transect: 7 Plot Size: 100 Ft²

Location: E½ Sec 8 T25 R99W

Date Pellet Groups Initially Removed: 10/23/74 Survey No: Fall 76

Plot No.	Inspector: CLKling Date: 15 SepT 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	Not changed From previous except where noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	0	

Sum 9-23-76

ECI
ecology consultants,

Project: P3 Transect: 8 Plot Size: 100 ft²

Location: W 1/2 Sec 25 T1S R100W

Date Pellet Groups Initially Removed: 05-11-75 Survey No: Fall 76

Plot No.	Inspector: CLKling Date: 13 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	Not changed from previous survey except where noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	1	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	1	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	2	

burro 3-

Project: 83 Transect: 9 Plot Size: 100 ft²

Location: S½ Sec. 28 T1S R99W

Date Pellet Groups Initially Removed: 16 May 1975 Survey No: Fall 1976

Plot No.	Inspector: CL King Date: 15 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	unchanged from previous survey except where noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	1	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	1	

bm 9-23-76

Project: 83 Transect: 10 Plot Size: 100 ft²

Location: W 1/2 Sec 36 T15 R100W

Date Pellet Groups Initially Removed: 05/17/76 Survey No: Fall 76

Plot No.	Inspector: CLKling Date: 13 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	Unchanged from previous except where noted
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	1	
14	0	
15	0	
16	0	
17	0	
18	0	
19	1	
20	1	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	3	

Lum 9-25-7

Project: 83 Transect: 11 Plot Size: 100 ft²

Location: E 1/2 Sec 1 T2S R100W

Date Pellet Groups Initially Removed: 05/12/75 Survey No: F[illegible]76

Plot No.	Inspector: CLKling Date: 13 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	overlooked from previous unless noted
2	[illegible]	
3	[illegible]	
4	1	
5	[illegible]	
6	1	
7	[illegible]	
8	[illegible]	
9	[illegible]	
10	[illegible]	
11	[illegible]	
12	0	
13	0	
14	0	
15	1	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	[illegible]	
23	[illegible]	
24	0	
25	[illegible]	
Total	3	

Lum 9-23-76

ECI
ecology consultants, In

Project: 83 Transect: 12 Plot Size: 100 ft-2

Location: E 1/2 Sec 13 T2S R100W

Date Pellet Groups Initially Removed: 14 May 75 Survey No: 6-11 76

Plot No.	Inspector: CLKlimy Date: 12 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	2	unchanged except where noted
2	0	
3	0	
4	0	
5	0	
6	1	
7	1	
8	0	
9	0	
10	0	
11	1	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	1	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	6	

Area 9-23-76

Project: 83 Transect: 13 Plot Size: 100 ft²

Location: E½ Sec 16, T2S R99W

Date Pellet Groups Initially Removed: May 16, 1975 Survey No: Fall 76

Plot No.	Inspector: CLKling Date: 16 Sept 76 Pellet Groups Observed	Landscape and Vegetation Information
1	0	not changed from previous except where noted.
2	0	
3	0	
4	0	
5	0	
6	0	
7	0	
8	0	
9	0	
10	0	
11	0	
12	0	
13	0	
14	0	
15	0	
16	0	
17	0	
18	0	
19	0	
20	0	
21	0	
22	0	
23	0	
24	0	
25	0	
Total	0	

bmw 9-23-76

2.3.9 TERRESTRIAL INVERTEBRATE

2.3.9 Terrestrial Invertebrates

2.3.9.3 Results

Greasewood-Sagebrush (site 1)-

Samples taken during July and September 1976 were identified and enumerated during the period September through October 31, 1976.

The estimated density of ground-dwelling invertebrates captured in pitfalls from the greasewood-sagebrush vegetation type in July 1976 was 49.6 invertebrates per m^2. Mites (Acari) was the most abundant order and had the highest density at 34.97 per m^2 (Table 2.3-50). Ants (Hymenoptera) and springtails (Collembola) were the second and third most abundant orders captured, accounting for 35.41% of the total invertebrates captured and a combined density of 8.78 invertebrates per m^2. Saprovores and predators were the dominant feeding types contributing 36.8% and 35.8% of the total captures respectively (Table 2.3-51). Nearly all of the saprovores were springtails and orbatid mites, and all of the predators were spiders (Araneida) and prostigmatid mites.

The densities of invertebrate groups captured in pitfalls at the greasewood-sagebrush vegetation type in September 1976 totaled 25.28 invertebrates per m^2. Mites accounted for 62.6% of the total invertebrate captures and contributed 11.88 invertebrates per m^2 (Table 2.3-52). Most of the mites captured were in the suborder Prostigmata which accounts for 54.2 percent of the total invertebrate captures in the predator feeding type (Table 2.3-53). The second largest feeding category, saprovores (33.3% of the pitfall captures), consisted of a variety of invertebrate orders including mites, springtails, bristletails (Thysanura), booklice, (Psocoptera), and harvestmen (Phalangida).

Litter samples from the greasewood-sagebrush vegetation type in July 1976 yielded invertebrate densities varying from 47.4 to 1371.6 invertebrates per kilogram of litter (Table 2.3-54). These densities produced an average of 515.9 invertebrates per kilogram litter and a standard error of 231.5 (Table 2.3-55). Mites contributed 65% of the total captures with 290 individuals, and booklice and thrips (Thysanoptera) each contributed 11% of the captures (Table 2.3-56). Sixty-one percent of all captures were saprovores, including most of the mites and all of the booklice (Table 2.3-57).

Invertebrate captures from the litter at the greasewood-sagebrush vegetation type in September 1976 averaged 1361.2 invertebrates per kilogram of litter with a standard error of 409.8 (Table 2.3-58). The average is based on data from five samples which varied from 260.4 to 2432.9 invertebrates per kilogram litter (Table 2.3-59). The most numerous invertebrate groups taken in September 1976 litter samples were mites with 607 individuals and booklice with 467 individuals (Table 2.3-60). All of the booklice and most of

Table 2.3-50. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 1, greasewood-sagebrush, during July 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	82	6.73	***
COLLEMBOLA	187	15.34	4.84
ORTHOPTERA	3	0.25	0.03
PSOCOPTERA	16	1.31	***
THYSANOPTERA	6	0.49	0.06
HEMIPTERA	7	0.57	0.08
HOMOPTERA	51	4.18	1.11
COLEOPTERA	33	2.71	4.26
DIPTERA	9	0.74	0.22
HYMENOPTERA	244	20.02	3.94
ARANEIDA	100	8.20	***
PHALANGIDA	6	0.49	0.06
ACARI	472	38.72	34.97
LITHOBIOMORPHA	3	0.25	0.03

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 1/# collected all taxa, site 1) X 100
*** assumptions of density estimation method not met

Table 2.3-51. Numbers and percentages of invertebrates within each feeding type taken in pitfall trap samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	73	6.0	36	7.1	56	7.6	115	14.3	82	11.2
Flower feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Fungus feeders	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	448	36.8	68	13.4	74	10.0	78	9.7	222	30.5
Omnivores	230	18.9	78	15.3	38	5.1	463	57.4	229	31.4
Predators	436	35.8	311	61.1	557	75.4	118	14.6	123	16.9
Unknown	28	2.3	16	3.1	14	1.9	32	4.0	73	10.0

Table 2.3-52. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 1, greasewood-sagebrush, during September 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	46	3.66	0.55
COLLEMBOLA	163	12.98	9.82
ORTHOPTERA	1	0.08	0.01
PSOCOPTERA	32	2.55	***
THYSANOPTERA	4	0.32	0.10
HEMIPTERA	1	0.08	0.01
HOMOPTERA	40	3.18	0.76
COLEOPTERA	13	1.04	***
LEPIDOPTERA	8	0.64	0.10
DIPTERA	14	1.11	***
HYMENOPTERA	84	6.69	0.94
CHELONETHIDA	1	0.08	0.01
ARANEIDA	42	3.34	0.65
PHALANGIDA	21	1.67	0.45
ACARI	786	62.58	11.88

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 1/# collected all taxa, site 1) X 100
*** assumptions of density estimation method not met

Table 2.3-53. Numbers and percentages of invertebrates within each feeding type taken in pitfall trap samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	49	3.9	33	12.9	12	2.9	61	20.3	24	6.7
Flower feeders	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Fungus feeders	3	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	418	33.3	55	21.6	98	23.8	16	5.3	156	43.3
Omnivores	59	4.7	29	11.4	18	4.4	63	21.0	30	8.3
Predators	681	54.2	107	42.0	257	62.5	82	27.3	133	36.9
Unknown	45	3.6	31	12.2	26	6.3	78	26.0	17	4.7

Table 2.3-54. Results of litter d-vac invertebrate sampling at site 1, greasewood-sagebrush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
612	203	203.00	148.00	1371.6
613	75	75.00	238.00	315.1
614	31	31.00	654.00	47.4
615	54	54.00	219.00	246.6
616	82	82.00	137.00	598.5

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-55. Average number of invertebrates collected from litter by the d-vac method at each sampling site during July 1976 for RBOSP

Site	Vegetation type	# of Samples	Avg. # of inverts. per kilogram litter	Variance	Std. error
1	greasewood-sagebrush	5	515.9	267856.6	231.5
2	pinyon-juniper (south slope)	5	127.5	11236.1	47.4
3	pinyon-juniper (north slope)	5	321.6	247932.8	222.7
4	sagebrush	5	770.8	851764.0	412.7
5	mixed brush	5	328.5	19134.7	61.9

Table 2.3-56. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during July 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
DIPLURA											
Unknown		0	0	0	0	1	2	0	0	0	0
COLLEMBOLA											
Isotomidae	elongate-bodied springtails	0	0	1	7	1	749	1	204	0	0
Entomobryidae	elongate-bodied springtails	0	0	1	34	1	140	0	0	1	68
Sminthuridae	globular springtails	1	2	1	4	0	0	0	0	1	1
PSOCOPTERA											
Unknown		1	51	1	3	1	21	0	0	1	16
THYSANOPTERA											
Unknown		1	50	0	0	0	0	0	0	1	5
HEMIPTERA											
Unknown		1	18	1	1	0	0	1	3	1	7
HOMOPTERA											
Unknown		1	1	1	2	0	0	1	7	1	8
COLEOPTERA											
Unknown		1	1	1	5	1	10	1	1	0	0
Carabidae	ground beetles	2	5	1	11	1	8	0	0	0	0
Staphylinidae	rove beetles	0	0	1	1	1	3	0	0	1	1
Dermestidae	dermestid beetles	0	0	0	0	1	1	0	0	0	0
Cleridae	checkered beetles	1	1	0	0	0	0	0	0	0	0
Lathridiidae	minute brown scavenger beetles	1	1	0	0	0	0	0	0	0	0
Tenebrionidae	darkling beetles	0	0	0	0	1	1	1	1	0	0
Melandryidae	false darkling beetles	0	0	0	0	1	2	0	0	0	0
Scarabaeidae	scarab beetles	0	0	0	0	1	1	0	0	0	0
Chrysomelidae	leaf beetles	3	6	1	1	0	0	0	0	0	0
Curculionidae	snout beetles	0	0	1	2	0	0	0	0	0	0
LEPIDOPTERA											
Unknown		0	0	0	0	0	0	1	1	1	9
Arctiidae	tiger moths	0	0	0	0	0	0	1	1	0	0
Noctuidae	cutworm moths	1	1	0	0	0	0	1	3	0	0
DIPTERA											
Unknown		0	0	0	0	0	0	1	6	1	1
Therevidae	stiletto flies	0	0	1	1	1	1	1	1	0	0
HYMENOPTERA											
Unknown		0	0	0	0	0	0	0	0	1	1

Table 2.3-56 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Ichneumonidae	ichneumonid wasps	1	1	0	0	0	0	0	0	0	0
Scelionidae	scelionid wasps	1	1	0	0	0	0	0	0	0	0
Formicidae	ants	1	1	4	30	3	30	4	68	7	71
CHELONETHIDA	pseudoscorpions										
Unknown		1	11	1	5	1	12	1	1	1	4
ARANEIDA	spiders										
Unknown		1	4	1	4	1	9	1	9	1	11
Dictynidae	dictynid spiders	0	0	0	0	0	0	0	0	1	1
Lycosidae	wolf spiders	0	0	1	1	0	0	0	0	0	0
Gnaphosidae	hunting spiders	0	0	0	0	0	0	0	0	1	6
Salticidae	jumping spiders	0	0	0	0	0	0	1	1	1	1
ACARI	ticks and mites										
Unknown		3	290	3	313	3	320	3	190	3	150
GEOPHILOMORPHA											
Unknown		0	0	0	0	0	0	1	1	0	0
	TOTALS	22	445	22	425	20	1310	21	498	25	361

Table 2.3-57. Numbers and percentages of invertebrates within each feeding type taken in litter D-vac samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	58	13.0	3	0.7	3	0.2	12	2.4	22	6.1
Flower feeders	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0
Fungus feeders	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	272	61.1	319	75.1	1177	89.8	337	67.7	201	55.7
Omnivores	1	0.2	30	7.1	30	2.3	68	13.7	71	19.7
Predators	56	12.6	55	12.9	71	5.4	67	13.5	54	15.0
Unknown	55	12.4	18	4.2	29	2.2	14	2.8	13	3.6

Table 2.3-58. Average number of invertebrates collected from litter by the d-vac method at each sampling site during September 1976 for RBOSP

Site	Vegetation type	# of Samples	Avg. # of inverts. per kilogram litter	Variance	Std. error
1	greasewood-sagebrush	5	1361.2	839814.1	409.8
2	pinyon-juniper (south slope)	5	534.9	1168160.5	483.4
3	pinyon-juniper (north slope)	5	54.5	1114.9	14.9
4	sagebrush	5	826.9	429739.3	293.2
5	mixed brush	5	372.7	15436.3	55.6

Table 2.3-59. Results of litter d-vac invertebrate sampling at site 1, greasewood-sagebrush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
744	209	220.77	216.00	1022.1
745	550	580.99	266.00	2184.2
746	433	457.39	188.00	2432.9
747	109	115.14	127.00	906.6
748	71	75.00	288.00	260.4

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-60. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by litter D-vac sampling at all sites during September 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
DIPLURA											
Unknown		1	10	0	0	0	0	0	0	0	0
COLLEMBOLA											
Isotomidae	elongate-bodied springtails	1	86	2	1015	1	35	1	1	1	5
Entomobryidae	elongate-bodied springtails	2	44	1	61	1	8	1	1	1	22
Sminthuridae	globular springtails	0	0	0	0	0	0	0	0	1	1
PSOCOPTERA											
Unknown		1	467	1	21	1	35	0	0	1	5
THYSANOPTERA											
Unknown		1	29	1	2	1	4	0	0	1	8
HEMIPTERA											
Unknown		1	11	0	0	0	0	1	10	1	6
HOMOPTERA											
Unknown		1	5	0	0	0	0	1	48	1	14
COLEOPTERA											
Unknown		1	2	1	7	1	7	0	0	1	25
Carabidae	ground beetles	2	3	1	8	1	1	1	2	0	0
Staphylinidae	rove beetles	2	29	1	4	1	4	1	1	2	5
Chrysomelidae	leaf beetles	2	11	0	0	0	0	2	3	0	0
Curculionidae	snout beetles	1	0	0	0	0	0	1	12	1	5
Scolytidae	bark beetles	0	0	1	6	0	0	0	0	0	0
LEPIDOPTERA											
Unknown		0	0	0	0	0	0	1	2	1	4
Arctiidae	tiger moths	0	0	0	0	0	0	1	14	0	0
Noctuidae	cutworm moths	1	2	0	0	0	0	1	4	1	1
DIPTERA											
Unknown		1	6	0	0	0	0	1	3	1	2
Sciaridae	dark-winged fungus gnats	0	0	1	4	1	1	0	0	0	0
Therevidae	stiletto flies	0	0	0	0	0	0	0	0	1	2
HYMENOPTERA											
Unknown		1	12	0	0	0	0	2	6	1	15
Pteromalidae	pteromalid wasps	0	0	0	0	0	0	0	0	1	2
Ceraphronidae	ceraphronid wasps	0	0	0	0	0	0	0	0	1	6
Diapriidae	diapriid wasps	0	0	0	0	0	0	0	0	1	1

Table 2.3-60 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Scelionidae	scelionid wasps	1	1	0	0	0	0	0	0	0	0
Dryinidae	dryinid wasps	0	0	0	0	0	0	1	1	0	0
Formicidae	ants	5	17	1	2	1	80	3	16	3	12
CHELONETHIDA	pseudoscorpions										
Unknown		1	16	1	5	1	14	1	2	1	5
ARANEIDA	spiders										
Unknown		1	8	1	25	1	10	1	9	1	4
Dictynidae	dictynid spiders	0	0	0	0	0	0	0	0	1	1
Hahniidae	hahniid spiders	1	1	0	0	0	0	0	0	0	0
Oxyopidae	lynx spiders	0	0	0	0	0	0	0	0	1	3
Gnaphosidae	hunting spiders	1	3	1	2	1	1	1	3	1	10
Thomisidae	crab spiders	0	0	1	4	0	0	1	1	0	0
Salticidae	jumping spiders	0	0	1	1	0	0	1	1	1	8
ACARI	ticks and mites										
Unknown		3	607	3	181	2	72	3	280	3	284
LITHOBIOMORPHA											
Unknown		1	2	0	0	0	0	0	0	0	0
GEOPHILOMORPHA											
Unknown		0	0	0	0	0	0	1	1	0	0
	TOTALS	33	1372	19	1348	14	272	28	421	31	456

the mites were saprovores, giving this feeding type 65.9% of the total litter captures in September 1976. Predators, the remaining abundant feeding type with 27.1% of total captures, were mainly prostigmatid mites (Table 2.3-61).

Herbaceous sweeping of the ground layer vegetation of the greasewood-sagebrush vegetation type in July 1976 yielded 786 invertebrates in 100 sweeps (Table 2.3-62). Forty percent of the total captures were thrips (314 individuals) and an additional 29% was relatively evenly divided among leafhoppers (Cicadellidae), delphacid planthoppers (Delphacidae), eulophid wasps (Eulophidae), and trixoscelidid flies (Trixoscelididae). Three of the abundant groups (thrips, leafhoppers, and delphacid planthoppers) were the dominant contributors to the herbivore feeding type which accounted for 65.5% of the total invertebrate captures (Table 2.3-63).

The greasewood-sagebrush vegetation type herbaceous vegetation sweeps contained 347 invertebrates in September 1976 (Table 2.3-64). Globular springtails accounted for 38% of the total captures (133 individuals). The second and third most abundant invertebrate groups were mites and ants with 12% and 10% of the captures, respectively. The abundance of globular springtails in the September herbaceous sweep captures is partially responsible for the large percentage (64.3%) of invertebrate captures which were herbivores (Table 2.3-65).

Five Trap D-Vac samples were taken from rabbitbrush each sampling period at the greasewood-sagebrush site. One hundred-ninety four invertebrates were taken in July 1976 (Table 2.3-66), giving density estimates ranging from 484.9 to 2970.9 invertebrates per cubic meter of vegetation (Table 2.3-67). These densities produced a calculated average of 1551.0 invertebrates per cubic meter of rabbitbrush with a standard error of 479.9 (Table 2.3-68). The most abundant groups captured were mites (43 individuals), leafhoppers (33 individuals), and thrips (31 individuals). Herbivores were the most numerous invertebrates found on rabbitbrush and contributed 59.8% of the total captures (Table 2.3-69). Leafhoppers and thrips were the most abundant plant feeders in addition to a variety of families in the orders Hemiptera, Homoptera, and Coleoptera.

Five hundred-eighty nine invertebrates were captured in September 1976 by vacuuming rabbitbrush in the greasewood-sagebrush vegetation type (Table 2.3-70). The resultant density estimates ranged from 1353.9 to 5134.2 invertebrates per cubic meter of rabbitbrush (Table 2.3-71) for an average of 3055.8 and a standard error of 657.9 (Table 2.3-72). Thrips made up 46% of the total invertebrates captured, and an additional 26% of the total invertebrates captured was evenly divided among weevils (Curculionidae) and ants. The combined capture totals of thrips and weevils plus those for aphids (aphididae) and leafhoppers accounted for nearly all of the captures in the herbivore feeding type (Table 2.3-73).

Table 2.3-61. Numbers and percentages of invertebrates within each feeding type taken in litter D-vac samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	47	3.4	8	0.6	4	1.5	83	19.7	33	7.2
Flower feeders	13	0.9	4	0.3	1	0.4	2	0.5	6	1.3
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	904	65.9	1221	90.6	123	45.2	253	60.1	303	66.4
Omnivores	17	1.2	2	0.1	80	29.4	16	3.8	12	2.6
Predators	372	27.1	106	7.9	57	21.0	49	11.6	51	11.2
Unknown	19	1.4	7	0.5	7	2.6	18	4.3	51	11.2

Table 2.3-62. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during July 1976 for RBOSP

ORDER / Family	Common name	Site 1 A	Site 1 B	Site 2 A	Site 2 B	Site 3 A	Site 3 B	Site 4 A	Site 4 B	Site 5 A	Site 5 B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	1	3	1	5	1	1	1	68
THYSANOPTERA											
Unknown		5	314	0	0	2	2	0	0	0	0
HEMIPTERA											
Unknown		1	14	0	0	0	0	0	0	0	0
Anthocoridae	minute pirate bugs	1	2	0	0	0	0	0	0	0	0
Miridae	plant bugs	1	8	2	7	0	0	0	0	8	26
Nabidae	damsel bugs	1	2	0	0	0	0	0	0	1	2
Tingidae	lace bugs	0	0	1	1	0	0	0	0	0	0
Lygaeidae	seed bugs	1	1	0	0	0	0	0	0	1	3
HOMOPTERA											
Cicadellidae	leafhoppers	6	73	4	16	2	2	4	17	2	43
Delphacidae	delphacid planthoppers	1	67	0	0	0	0	0	0	1	5
Psyllidae	psyllids	0	0	1	3	1	80	0	0	1	26
Aphididae	aphids	1	9	1	3	1	3	1	2	1	4
COLEOPTERA											
Dasytidae	soft-winged flower beetle	0	0	1	1	1	1	0	0	0	0
Cleridae	checkered beetles	0	0	0	0	0	0	0	0	1	16
Anthicidae	antlike flower beetles	1	5	0	0	0	0	0	0	0	0
Mordellidae	tumbling flower beetles	0	0	0	0	0	0	0	0	1	3
Melandryidae	false darkling beetles	1	13	0	0	0	0	0	0	0	0
Scarabaeidae	scarab beetles	1	2	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	1	3	0	0	0	0	0	0	2	2
Curculionidae	snout beetles	1	18	1	4	1	1	0	0	1	13
LEPIDOPTERA											
Unknown		1	1	0	0	0	0	0	0	0	0
Geometridae	geometer moths	1	2	0	0	0	0	0	0	0	0
DIPTERA											
Ceratopogonidae	biting midges	0	0	0	0	0	0	0	0	1	1
Chironomidae	midges	1	2	0	0	0	0	0	0	0	0
Therevidae	stiletto flies	0	0	0	0	0	0	0	0	1	1
Asilidae	robber flies	1	1	0	0	0	0	0	0	1	1
Phoridae	humpbacked flies	0	0	0	0	1	1	0	0	0	0

Table 2.3-62 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Pipunculidae	big-headed flies	1	2	0	0	0	0	0	0	0	0
Tephritidae	fruit flies	1	4	0	0	0	0	0	0	1	3
Sepsidae	black scavenger flies	1	1	0	0	0	0	0	0	0	0
Chamaemyiidae	aphid flies	0	0	1	2	0	0	0	0	0	0
Lonchaeidae	lonchaeid flies	0	0	0	0	0	0	0	0	1	2
Chloropidae	chloropid flies	1	23	0	0	1	1	0	0	2	7
Trixoscelididae	trixoscelidid flies	1	49	0	0	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	1	2	0	0	0	0	1	1	0	0
HYMENOPTERA											
Siricidae		1	4	0	0	0	0	0	0	0	0
Braconidae	braconid wasps	4	8	0	0	0	0	0	0	2	3
Mymaridae	fairyflies	2	33	0	0	1	1	1	2	1	11
Eulophidae	eulophid wasps	5	58	1	2	1	1	0	0	3	9
Encyrtidae	encyrtid wasps	3	15	0	0	0	0	0	0	0	0
Pteromalidae	pteromalid wasps	4	18	1	1	1	3	0	0	2	3
Cynipidae	gall wasps	1	1	0	0	0	0	0	0	0	0
Ceraphronidae	ceraphronid wasps	1	6	0	0	0	0	0	0	0	0
Platygasteridae	platygasterid wasps	1	2	0	0	0	0	0	0	0	0
Formicidae	ants	3	13	1	2	1	1	2	12	1	17
Colletidae	yellow-faced bees	0	0	1	1	0	0	0	0	0	0
Halictidae	halictid bees	1	2	1	1	0	0	0	0	0	0
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	0	0	1	1	0	0
Thomisidae	crab spiders	1	3	1	1	0	0	0	0	0	0
Salticidae	jumping spiders	1	5	1	1	0	0	1	4	0	0
ACARI	ticks and mites										
Unknown		0	0	1	2	0	0	0	0	0	0
	TOTALS	61	786	21	51	15	102	12	40	37	269

Table 2.3-63. Numbers and percentages of invertebrates within each feeding type taken in ground layer herbaceous sweep samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	515	65.5	37	72.5	93	91.2	20	50.0	190	70.6
Flower feeders	155	19.7	4	7.8	3	2.9	2	5.0	34	12.6
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	1	0.1	0	0.0	1	1.0	0	0.0	0	0.0
Omnivores	13	1.7	2	3.9	1	1.0	12	30.0	17	6.3
Predators	31	3.9	6	11.8	4	3.9	5	12.5	23	8.6
Unknown	71	9.0	2	3.9	0	0.0	1	2.5	5	1.9

Table 2.3-64. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by ground layer herbaceous sweep sampling at all sites during September 1976 for RBCSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
COLLEMBOLA											
Sminthuridae	globular springtails	1	133	1	2	1	5	0	0	1	14
ORTHOPTERA											
Acrididae	short-horned grasshoppers	0	0	0	0	0	0	0	0	1	1
THYSANOPTERA											
Unknown		2	22	1	1	0	0	0	0	2	5
HEMIPTERA											
Unknown		1	6	0	0	0	0	0	0	0	0
Miridae	plant bugs	1	1	0	0	0	0	0	0	3	6
Nabidae	damsel bugs	1	2	0	0	0	0	0	0	0	0
Lygaeidae	seed bugs	0	0	1	2	0	0	0	0	0	0
Coreidae	leaf-foot bugs	0	0	1	1	0	0	0	0	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	4	29	2	6	2	6	3	6	3	14
Aphididae	aphids	1	19	1	3	1	2	0	0	1	12
COLEOPTERA											
Cleridae	checkered beetles	2	5	0	0	0	0	0	0	2	13
Lathridiidae	minute brown scavenger beetles	1	1	0	0	0	0	0	0	0	0
Coccinellidae	ladybird beetles	0	0	0	0	0	0	1	1	0	0
Chrysomelidae	leaf beetles	1	11	2	6	0	0	1	1	2	8
Curculionidae	snout beetles	2	8	1	6	0	0	0	0	2	18
LEPIDOPTERA											
Unknown		0	0	0	0	0	0	1	2	0	0
DIPTERA											
Chironomidae	midges	1	4	0	0	0	0	0	0	1	3
Sciaridae	dark-winged fungus gnats	0	0	0	0	0	0	0	0	1	12
Therevidae	stiletto flies	1	1	0	0	0	0	0	0	0	0
Phoridae	humpbacked flies	0	0	0	0	0	0	0	0	1	3
Pipunculidae	big-headed flies	1	1	0	0	0	0	0	0	0	0
Tephritidae	fruit flies	0	0	0	0	0	0	0	0	1	3
Sepsidae	black scavenger flies	0	0	0	0	0	0	0	0	1	1
Chloropidae	chloropid flies	2	2	0	0	0	0	0	0	2	2
Agromyzidae	leaf-miner flies	1	2	0	0	0	0	0	0	1	1
Anthomyiidae	anthomyiid flies	2	14	0	0	0	0	0	0	1	4

Table 2.3-64 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
HYMENOPTERA											
Braconidae	braconid wasps	1	1	0	0	0	0	0	0	1	3
Eulophidae	eulophid wasps	1	1	1	1	0	0	0	0	2	2
Encyrtidae	encyrtid wasps	1	1	1	1	0	0	1	1	0	0
Eupelmidae	eupelmid wasps	0	0	0	0	0	0	1	1	0	0
Pteromalidae	pteromalid wasps	1	2	1	1	0	0	0	0	1	4
Cynipidae	gall wasps	0	0	0	0	0	0	0	0	1	1
Ceraphronidae	ceraphronid wasps	1	1	0	0	0	0	0	0	0	0
Diapriidae	diapriid wasps	0	0	0	0	0	0	1	2	0	0
Platygasteridae	platygasterid wasps	1	1	2	4	0	0	1	3	1	8
Formicidae	ants	4	35	2	3	1	1	1	1	3	67
Halictidae	halictid bees	0	0	0	0	0	0	1	1	0	0
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	0	0	1	1	1	4
Thomisidae	crab spiders	1	2	1	1	0	0	0	0	1	11
Salticidae	jumping spiders	1	2	1	1	0	0	1	1	1	16
ACARI	ticks and mites										
Unknown		1	40	1	1	0	0	0	0	1	2
	TOTALS	38	347	20	40	5	14	14	21	39	238

Table 2.3-65. Numbers and percentages of invertebrates within each feeding type taken in ground layer herbaceous sweep samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	223	64.3	27	67.5	13	92.9	9	42.9	78	32.8
Flower feeders	14	4.0	6	15.0	0	0.0	8	38.1	32	13.4
Fungus feeders	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	0	0.0	0	0.0	0	0.0	0	0.0	4	1.7
Omnivores	35	10.1	3	7.5	1	7.1	1	4.8	67	28.2
Predators	53	15.3	4	10.0	0	0.0	3	14.3	50	21.0
Unknown	21	6.1	0	0.0	0	0.0	0	0.0	7	2.9

Table 2.3-66. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by trap D-vac sampling at all sites during July 1976 for RBOSP

ORDER Family	Common name	Site 1		Site 2		Site 3		Site 4		Site 5A		Site 5B	
		A	B	A	B	A	B	A	B	A	B	A	B
COLLEMBOLA													
Unknown		0	0	0	0	1	759	0	0	0	0	0	0
Isotomidae	elongate-bodied springtails	0	0	1	2	0	0	0	0	1	26	0	0
Entomobryidae	elongate-bodied springtails	0	0	0	0	0	0	1	1	0	0	0	0
Sminthuridae	globular springtails	1	22	1	10	2	14	0	0	1	4	0	0
THYSANOPTERA													
Unknown		1	31	1	1	2	16	2	2	2	4	1	3
HEMIPTERA													
Unknown		1	3	0	0	0	0	0	0	0	0	0	0
Miridae	plant bugs	0	0	2	2	1	1	1	2	1	1	1	1
Reduviidae	assassin bugs	0	0	0	0	1	1	0	0	0	0	0	0
Tingidae	lace bugs	1	1	0	0	0	0	0	0	0	0	0	0
Lygaeidae	seed bugs	0	0	0	0	0	0	1	1	0	0	0	0
Pentatomidae	stink bugs	1	1	1	2	0	0	0	0	0	0	0	0
HOMOPTERA													
Unknown		0	0	1	1	0	0	0	0	0	0	0	0
Cicadellidae	leafhoppers	5	33	4	31	1	2	4	33	2	14	2	4
Cercopidae	froghoppers	0	0	0	0	1	1	0	0	0	0	0	0
Delphacidae	delphacid planthoppers	1	2	0	0	0	0	0	0	1	1	0	0
Psyllidae	psyllids	0	0	0	0	0	0	1	1	0	0	0	0
Aphididae	aphids	1	3	1	1	0	0	1	3	0	0	0	0
Coccoidea	scales	0	0	1	2	1	33	0	0	1	8	0	0
COLEOPTERA													
Unknown		1	18	0	0	1	5	0	0	1	2	0	0
Carabidae	ground beetles	0	0	0	0	1	5	0	0	0	0	0	0
Ostomidae	bark-gnawing beetles	0	0	0	0	1	1	0	0	0	0	0	0
Elateridae	click beetles	0	0	0	0	0	0	0	0	1	1	0	0
Anthicidae	antlike flower beetles	1	3	0	0	0	0	0	0	0	0	0	0
Coccinellidae	ladybird beetles	0	0	0	0	0	0	0	0	1	3	1	1
Melandryidae	false darkling beetles	1	1	0	0	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	3	6	2	4	0	0	0	0	0	0	0	0
Curculionidae	snout beetles	1	12	1	4	1	2	2	5	1	1	1	2
NEUROPTERA													
Chrysopidae	green lacewings	0	0	0	0	1	1	0	0	0	0	0	0

Table 2.3-66 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5A A	 B	Site 5B A	 B
LEPIDOPTERA													
Unknown		1	1	0	0	1	12	1	9	1	2	1	8
Geometridae	geometer moths	1	1	0	0	1	1	0	0	0	0	0	0
DIPTERA													
Psychodidae	moth flies-sand flies	0	0	0	0	1	2	0	0	1	1	0	0
Culicidae	mosquitoes	0	0	0	0	1	1	0	0	0	0	0	0
Ceratopogonidae	biting midges	0	0	1	1	1	3	0	0	0	0	1	1
Chironomidae	midges	0	0	0	0	1	1	1	1	0	0	0	0
Mycetophilidae	fungus gnats	0	0	0	0	0	0	0	0	1	2	0	0
Cecidomyiidae	gall midges	0	0	1	3	1	3	1	7	1	2	1	5
Therevidae	stiletto flies	1	1	1	2	1	2	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	0	0	0	0	1	1	1	1	0	0	0	0
HYMENOPTERA													
Unknown		0	0	0	0	1	2	0	0	0	0	0	0
Braconidae	braconid wasps	0	0	1	1	0	0	0	0	0	0	0	0
Mymaridae	fairyflies	1	1	0	0	0	0	0	0	0	0	0	0
Encyrtidae	encyrtid wasps	0	0	0	0	1	1	1	1	0	0	0	0
Pteromalidae	pteromalid wasps	1	1	1	1	1	1	1	1	0	0	0	0
Scelionidae	scelionid wasps	0	0	0	0	0	0	0	0	1	3	0	0
Formicidae	ants	2	3	1	1	3	58	4	14	5	14	4	6
Halictidae	halictid bees	0	0	1	1	0	0	0	0	0	0	0	0
CHELONETHIDA	pseudoscorpions												
Unknown		0	0	0	0	0	0	0	0	1	1	0	0
ARANEIDA	spiders												
Unknown		0	0	0	0	1	5	0	0	0	0	0	0
Dictynidae	dictynid spiders	1	1	1	1	1	1	1	7	0	0	0	0
Oxyopidae	lynx spiders	0	0	0	0	0	0	1	2	0	0	0	0
Gnaphosidae	hunting spiders	0	0	1	2	1	2	0	0	1	5	0	0
Thomisidae	crab spiders	1	3	0	0	0	0	1	5	1	1	0	0
Salticidae	jumping spiders	1	3	2	4	0	0	1	2	0	0	1	3
ACARI	ticks and mites												
Unknown		1	43	1	10	1	273	1	147	2	62	2	6
TOTALS		30	194	28	87	34	1210	28	245	28	158	16	40

Table 2.3-67. Results of trap d-vac invertebrate sampling from rabbitbrush (Chrysothamnus nauseosus) at site 1, greasewood-sagebrush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted * #	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
605	42	42.00	0.30	0.014137	2970.9
606	10	10.00	0.20	0.004189	2387.3
607	73	73.00	0.66	0.150533	484.9
608	29	29.00	0.41	0.036087	803.6
609	40	40.00	0.41	0.036087	1108.4

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-68. Average number of invertebrates collected from selected plant species by the trap d-vac method at each sampling site during July 1976 for RBOSP

Site	Vegetation type	Plant species	# of Samples	Avg. # of inverts. per cubic meter	Variance	Std. error
1	greasewood-sagebrush	Chrysothamnus nauseosus	5	1551.0	1151613.8	479.9
2	pinyon-juniper (south slope)	Atriplex confertifolia	5	1794.2	1875271.3	612.4
3	pinyon-juniper (north slope)	Artemesia tridentata	5	11171.9	122337997.7	4946.5
4	sagebrush	Artemesia tridentata	5	1985.3	4735591.9	973.2
5A	mixed brush	Amelanchier utahensis	5	2823.7	7066608.8	1188.8
5B	mixed brush	Symphoricarpos oreophilus	5	914.8	929011.3	431.0

Table 2.3-69. Numbers and percentages of invertebrates within each feeding type taken in trap D-vac samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5A		Site 5B	
	#	%	#	%	#	%	#	%	#	%	#	%
Herbivores	116	59.8	58	66.7	70	5.8	47	19.2	34	21.5	10	25.0
Flower feeders	3	1.5	4	4.6	19	1.6	11	4.5	7	4.4	8	20.0
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	0	0.0	2	2.3	759	62.7	1	0.4	70	44.3	1	2.5
Omnivores	3	1.5	1	1.1	58	4.8	14	5.7	14	8.9	6	15.0
Predators	8	4.1	19	21.8	22	1.8	17	6.9	29	18.4	10	25.0
Unknown	64	33.0	3	3.4	282	23.3	155	63.3	4	2.5	5	12.5

Table 2.3-70. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by trap D-vac sampling at all sites during September 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5A A	 B	Site 5B A	 B
PSOCOPTERA													
Unknown		1	1	0	0	0	0	0	0	0	0	0	0
THYSANOPTERA													
Unknown		3	269	0	0	1	20	2	2	1	3	0	0
HEMIPTERA													
Miridae	plant bugs	2	19	0	0	1	1	0	0	0	0	0	0
Lygaeidae	seed bugs	2	2	0	0	0	0	0	0	0	0	0	0
HOMOPTERA													
Cicadellidae	leafhoppers	1	31	3	10	3	43	3	32	2	2	2	4
Psyllidae	psyllids	0	0	0	0	0	0	0	0	1	4	1	1
Aphididae	aphids	1	52	1	1	1	6	1	6	0	0	0	0
Coccoidea	scales	0	0	1	9	1	13	0	0	0	0	1	2
COLEOPTERA													
Unknown		1	1	0	0	0	0	0	0	0	0	0	0
Carabidae	ground beetles	0	0	0	0	0	0	1	1	0	0	0	0
Cleridae	checkered beetles	1	4	0	0	0	0	0	0	0	0	1	1
Coccinellidae	ladybird beetles	1	1	1	3	2	4	0	0	0	0	0	
Chrysomelidae	leaf beetles	1	2	0	0	1	1	1	1	0	0	0	
Curculionidae	snout beetles	2	76	0	0	1	1	0	0	1	1	0	0
NEUROPTERA													
Chrysopidae	green lacewings	0	0	0	0	0	0	1	2	0	0	0	0
LEPIDOPTERA													
Unknown		0	0	0	0	1	1	2	3	0	0	1	1
Geometridae	geometer moths	1	2	0	0	1	2	0	0	0	0	1	1
Gracilariidae	leaf blotch miners	1	3	0	0	0	0	0	0	0	0	0	0
DIPTERA													
Ceratopogonidae	biting midges	1	1	0	0	0	0	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	1	1	0	0	0	0	0	0	0	0	0	0
HYMENOPTERA													
Eulophidae	eulophid wasps	0	0	1	2	0	0	0	0	0	0	1	0
Encyrtidae	encyrtid wasps	0	0	0	0	0	0	1	4	0	0	0	0
Pteromalidae	pteromalid wasps	1	1	0	0	1	1	1	2	1	1	0	0
Platygasteridae	platygasterid wasps	1	22	0	0	1	1	1	14	0	0	1	4
Formicidae	ants	5	73	2	6	1	1	4	4	0	0	2	2

Table 2.3-70 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5A A	 B	Site 5B A	 B
ARANEIDA	spiders												
Unknown		0	0	1	2	1	1	1	1	0	0	0	0
Dictynidae	dictynid spiders	1	1	1	6	1	15	1	3	1	1	0	0
Araneidae	orb weavers	1	1	0	0	0	0	0	0	0	0	0	0
Oxyopidae	lynx spiders	0	0	0	0	0	0	1	2	1	1	1	3
Gnaphosidae	hunting spiders	0	0	0	0	1	1	0	0	0	0	1	1
Thomisidae	crab spiders	1	1	0	0	1	5	1	6	0	0	1	2
Salticidae	jumping spiders	1	18	0	0	1	1	1	3	1	2	1	1
ACARI	ticks and mites												
Unknown		1	7	1	3	0	0	1	3	1	1	0	0
	TOTALS	32	589	12	42	21	118	24	89	10	16	15	23

Table 2.3-71. Results of trap d-vac invertebrate sampling from rabbitbrush (Chrysothamnus nauseosus) at site 1, greasewood-sagebrush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
749	95	121.39	0.41	0.036087	3363.8
750	54	69.00	0.46	0.050965	1353.9
751	188	240.22	0.51	0.069456	3458.6
752	145	185.28	0.41	0.036087	5134.2
753	107	136.72	0.51	0.069456	1968.5

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-72. Average number of invertebrates collected from selected plant species by the trap d-vac method at each sampling site during September 1976 for RBOSP

Site	Vegetation type	Plant species	# of Samples	Avg. # of inverts. per cubic meter	Variance	Std. error
1	greasewood-sagebrush	Chrysothamnus nauseosus	5	3055.8	2163933.4	657.9
2	pinyon-juniper (south slope)	Atriplex confertifolia	5	1077.2	1402461.7	529.6
3	pinyon-juniper (north slope)	Artemesia tridentata	5	3004.7	4525119.8	951.3
4	sagebrush	Artemesia tridentata	5	2836.8	1993013.1	631.3
5A	mixed brush	Amelanchier utahensis	5	176.4	59871.5	109.4
5B	mixed brush	Symphoricarpos oreophilus	5	451.5	139861.6	167.2

Table 2.3-73. Numbers and percentages of invertebrates within each feeding type taken in trap D-vac samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5A		Site 5B	
	#	%	#	%	#	%	#	%	#	%	#	%
Herbivores	456	77.4	20	47.6	88	74.6	42	47.2	10	62.5	8	34.8
Flower feeders	22	3.7	2	4.8	1	0.8	20	22.5	0	0.0	5	21.7
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Omnivores	73	12.4	6	14.3	1	0.8	4	4.5	0	0.0	2	8.7
Predators	35	5.9	14	33.3	28	23.7	23	25.8	6	37.5	8	34.8
Unknown	2	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Beating samples taken from tall sagebrush plants in the greasewood-sagebrush habitat in July 1976 contained 581 invertebrates (Table 2.3-74). Sixty-seven percent of the total captures were contributed by two species groups of thrips. The large number of thrips was the primary reason that 92.5% of the captures were herbivores although 10 other plant feeding insect groups were captured (Table 2.3-75). By September 1976 the large numbers of thrips were gone from sagebrush beating samples at the greasewood-sagebrush site, resulting in only 113 invertebrate captures (Table 2.3-76). Forty-eight percent of this total consisted of platygasterid wasps (Platygasteridae), which explains the large percentage (49.6%) of the beating captures in the flower feeding category (Table 2.3-77).

Aerial sweeps taken from sagebrush foliage in the greasewood-sagebrush vegetation type contained 232 invertebrates in July 1976 (Table 2.3-78). Six species groups of invertebrates contributed greater than 5% of the total captures including thrips (17%), leafhoppers (16%), jumping spiders (Salticidae - 11%), plant bugs (Miridae - 9%), mites (9%), and eulophid wasps (5%). The variety of abundant invertebrate groups was also reflected in the breakdown of total captures by feeding type. The three most abundant feeding types (herbivores, flower feeders, and predators) each contained at least one of the abundant invertebrate groups (Table 2.3-79).

September 1976 aerial sweep captures from sagebrush at the greasewood-sagebrush site contained 69 invertebrates nearly half of which were platygasterid wasps (Table 2.3-80). As in September 1976 beating samples from sagebrush, the presence of large numbers of platygasterid wasps accounts for the high percentage of the total captures in the flower feeder category (Table 2.3-81).

Results of 10 days of trapping invertebrates with a Malaise trap at the greasewood-sagebrush site in July 1976 yielded an estimated 3872 invertebrates (Table 2.3-82). Numerically dominant groups included gall midges (Cecidomyiidae - 15%), winged reproductive ants (10%), tachinid flies (Tachinidae - 9%), adult moths (Lepidoptera - 8%), anthomyiid flies (Anthomyiidae - 7%), bee flies (Bombyllidae - 7%) and leafhoppers (5%). Gall midges, tachinid flies, and anthomyiid flies were described as unknown in feeding type which accounts for most of the 32.6% of the total captures assigned to the feeding type (Table 2.3-83). The most abundant feeding type, flower feeders, was made up of a variety of fly and wasp families in addition to the abundant groups of bee flies and adult moths.

Malaise trap captures from the greasewood-sagebrush vegetation type in September 1976 totaled 406 individuals (Table 2.3-84). There were a variety of families with greater than 5% of the captures (20 individuals), including anthomyiid flies and leafhoppers which were the most abundant groups taken. The large number of anthomyiid flies (96 individuals) accounts for most of the 39.4% of the total captures in the unknown feeding type (Table 2.3-85).

Table 2.3-74. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during July 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	1	28	1	45	1	66	1	1
PSOCOPTERA											
Unknown		1	4	0	0	0	0	0	0	1	2
THYSANOPTERA											
Unknown		2	391	2	6	1	3	2	3	1	1
HEMIPTERA											
Unknown		0	0	1	15	1	9	2	23	1	3
Anthocoridae	minute pirate bugs	1	3	0	0	0	0	0	0	0	0
Miridae	plant bugs	2	48	0	0	2	30	0	0	1	5
Nabidae	damsel bugs	1	2	0	0	0	0	0	0	0	0
Lygaeidae	seed bugs	1	2	0	0	0	0	0	0	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	2	38	0	0	1	4	1	24	0	0
Aphididae	aphids	1	28	0	0	0	0	1	9	0	0
Coccoidea	scales	1	17	1	2	1	3	0	0	0	0
COLEOPTERA											
Cleridae	checkered beetles	0	0	1	5	0	0	1	1	1	2
Coccinellidae	ladybird beetles	1	6	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	0	0	0	0	0	0	1	1	0	0
Curculionidae	snout beetles	0	0	0	0	1	53	2	2	1	3
Scolytidae	bark beetles	0	0	1	2	0	0	0	0	0	0
NEUROPTERA											
Hemerobiidae	brown lacewings	0	0	0	0	0	0	1	2	0	0
Chrysopidae	green lacewings	0	0	1	1	0	0	1	2	0	0
Raphidiidae	raphidiid snakeflies	0	0	1	2	0	0	0	0	0	0
LEPIDOPTERA											
Unknown		2	16	0	0	0	0	1	2	0	0
HYMENOPTERA											
Braconidae	braconid wasps	1	1	0	0	1	1	1	1	1	1
Trichogrammatidae	trichogrammatid wasps	1	2	0	0	0	0	0	0	0	0
Eulophidae	eulophid wasps	1	2	0	0	2	8	1	4	0	0
Tanaostigmatidae	tanaostigmatid wasps	0	0	1	2	0	0	0	0	0	0
Encyrtidae	encyrtid wasps	1	1	0	0	1	1	0	0	0	0

Table 2.3-74 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
Eupelmidae	eupelmid wasps	0	0	0	0	0	0	0	0	1	1
Pteromalidae	pteromalid wasps	1	1	1	2	1	5	1	1	1	1
Chalcididae	chalcid wasps	0	0	0	0	0	0	0	0	1	1
Cynipidae	gall wasps	0	0	0	0	0	0	0	0	1	1
Scelionidae	scelionid wasps	0	0	0	0	1	1	0	0	0	0
Formicidae	ants	1	9	1	5	0	0	1	1	1	1
ARANEIDA											
Dictynidae	dictynid spiders	1	3	1	4	1	4	1	2	1	4
Araneidae	orb weavers	0	0	1	2	0	0	1	2	0	0
Oxyopidae	lynx spiders	0	0	0	0	0	0	1	2	0	0
Gnaphosidae	hunting spiders	0	0	1	1	0	0	0	0	0	0
Thomisidae	crab spiders	1	1	1	6	1	3	1	2	0	0
Salticidae	jumping spiders	1	6	0	0	0	0	0	0	0	0
ACARI	ticks and mites										
Unknown		0	0	1	2	1	5	1	2	1	1
	TOTALS	24	581	17	85	17	175	23	152	15	28

Table 2.3-75. Numbers and percentages of invertebrates within each feeding type taken in beating samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2P[1/]		Site 2J		Site 3P		Site 3J	
	#	%	#	%	#	%	#	%	#	%
Herbivores	536	92.3	38	44.7	138	78.9	105	69.1	5	17.9
Flower feeders	10	1.7	2	2.4	11	6.3	7	4.6	9	32.1
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	4	0.7	0	0.0	0	0.0	0	0.0	2	7.1
Omnivores	9	1.5	5	5.9	0	0.0	1	0.7	1	3.6
Predators	22	3.8	25	29.4	17	9.7	16	10.5	8	28.6
Unknown	0	0.0	15	17.6	9	5.1	23	15.1	3	10.7

[1/] Designations of 2P, 2J, 3P, and 3J refer to sample results for pinyon and juniper analyzed separately

Table 2.3-76. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by beating sampling at all sites during September 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	1	34	1	46	0	0	0	0
PSOCOPTERA											
Unknown		1	3	0	0	0	0	0	0	1	1
THYSANOPTERA											
Unknown		3	22	2	5	1	1	1	5	1	4
HEMIPTERA											
Miridae	plant bugs	1	4	2	7	1	3	0	0	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	2	10	1	2	1	1	0	0	0	0
Cercopidae	froghoppers	0	0	1	1	0	0	0	0	0	0
Psyllidae	psyllids	0	0	0	0	1	1	0	0	0	0
Aphididae	aphids	1	4	0	0	0	0	1	9	0	0
Coccoidea	scales	1	3	1	10	1	1	1	2	0	0
COLEOPTERA											
Unknown		0	0	1	2	0	0	0	0	0	0
Cleridae	checkered beetles	1	1	1	1	0	0	0	0	0	0
Coccinellidae	ladybird beetles	0	0	0	0	1	4	0	0	0	0
Anthicidae	antlike flower beetles	0	0	1	2	0	0	0	0	0	0
Curculionidae	snout beetles	0	0	0	0	1	2	0	0	0	0
Scolytidae	bark beetles	0	0	1	2	0	0	0	0	0	0
NEUROPTERA											
Chrysopidae	green lacewings	0	0	1	4	1	1	0	0	0	0
LEPIDOPTERA											
Unknown		1	1	0	0	0	0	0	0	0	0
Geometridae	geometer moths	0	0	0	0	0	0	0	0	1	1
DIPTERA											
Unknown		0	0	1	3	0	0	0	0	0	0
HYMENOPTERA											
Braconidae	braconid wasps	2	4	0	0	0	0	0	0	0	0
Trichogrammatidae	trichogrammatid wasps	0	0	1	5	0	0	1	1	0	0
Eulophidae	eulophid wasps	1	1	2	9	0	0	1	1	1	1
Tanaostigmatidae	tanaostigmatid wasps	0	0	1	1	0	0	0	0	0	0
Encyrtidae	encyrtid wasps	0	0	1	1	0	0	0	0	0	0

Table 2.3-76 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
Pteromalidae	pteromalid wasps	1	2	1	4	2	2	1	2	0	0
Scelionidae	scelionid wasps	0	0	1	3	1	1	0	0	0	0
Platygasteridae	platygasterid wasps	1	51	0	0	0	0	0	0	0	0
Formicidae	ants	0	0	2	3	0	0	0	0	0	0
ARANEIDA	spiders										
Unknown		0	0	1	4	0	0	0	0	0	0
Dictynidae	dictynid spiders	0	0	0	0	0	0	1	3	0	0
Araneidae	orb weavers	0	0	1	1	0	0	0	0	0	0
Oxyopidae	lynx spiders	0	0	0	0	0	0	1	1	0	0
Thomisidae	crab spiders	0	0	1	1	0	0	0	0	0	0
Salticidae	jumping spiders	1	2	0	0	0	0	1	1	0	0
ACARI	ticks and mites										
Unknown		1	5	1	12	1	3	1	35	1	6
	TOTALS	18	113	27	117	13	66	10	60	5	13

Table 2.3-77. Numbers and percentages of invertebrates within each feeding type taken in beating samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2P [1/]		Site 2J		Site 3P		Site 3J	
	#	%	#	%	#	%	#	%	#	%
Herbivores	44	38.9	63	53.8	55	83.3	16	26.7	5	38.5
Flower feeders	56	49.6	19	16.2	1	1.5	2	3.3	1	7.7
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	3	2.7	0	0.0	0	0.0	35	58.3	7	53.8
Omnivores	0	0.0	3	2.6	0	0.0	0	0.0	0	0.0
Predators	10	8.8	27	23.1	10	15.2	7	11.7	0	0.0
Unknown	0	0.0	5	4.3	0	0.0	0	0.0	0	0.0

[1/] Designations of 2P, 2J, 3P, and 3J refer to sample results for pinyon and juniper analyzed separately

Table 2.3-78. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during July 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
COLLEMBOLA											
Sminthuridae	globular springtails	0	0	0	0	0	0	1	2	0	0
PSOCOPTERA											
Unknown		0	0	1	2	0	0	1	1	1	2
THYSANOPTERA											
Unknown		3	39	0	0	0	0	1	6	1	1
HEMIPTERA											
Unknown		2	5	0	0	0	0	0	0	0	0
Anthocoridae	minute pirate bugs	1	1	0	0	0	0	0	0	0	0
Miridae	plant bugs	3	20	1	2	1	1	2	11	3	4
Nabidae	damsel bugs	1	3	0	0	0	0	0	0	0	0
Lygaeidae	seed bugs	1	8	1	2	0	0	0	0	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	1	37	1	10	1	3	1	7	0	0
Delphacidae	delphacid planthoppers	1	1	0	0	0	0	0	0	0	0
Aphididae	aphids	1	5	0	0	0	0	1	1	1	5
COLEOPTERA											
Cleridae	checkered beetles	0	0	3	12	1	1	0	0	0	0
Coccinellidae	ladybird beetles	1	2	0	0	0	0	0	0	0	0
Chrysomelidae	leaf beetles	1	1	0	0	0	0	0	0	0	0
Curculionidae	snout beetles	2	2	0	0	1	10	0	0	1	2
NEUROPTERA											
Hemerobiidae	brown lacewings	0	0	0	0	0	0	1	2	1	1
Chrysopidae	green lacewings	0	0	1	1	1	1	2	3	0	0
LEPIDOPTERA											
Unknown		1	6	0	0	0	0	1	1	0	0
DIPTERA											
Cecidomyiidae	gall midges	0	0	0	0	0	0	1	2	1	4
Stratiomyidae	soldier flies	0	0	0	0	0	0	1	1	0	0
Tephritidae	fruit flies	3	5	0	0	0	0	0	0	0	0
Chloropidae	chloropid flies	1	1	0	0	0	0	1	1	0	0
Anthomyiidae	anthomyiid flies	3	6	0	0	0	0	0	0	0	0
HYMENOPTERA											
Braconidae	braconid wasps	2	8	0	0	1	2	0	0	0	0

Table 2.3-78 (continued)

ORDER / Family	Common name	Site 1 A	Site 1 B	Site 2P A	Site 2P B	Site 2J A	Site 2J B	Site 3P A	Site 3P B	Site 3J A	Site 3J B
Eulophidae	eulophid wasps	2	13	3	18	1	1	2	5	0	0
Encyrtidae	encyrtid wasps	1	1	0	0	1	1	1	1	0	0
Eupelmidae	eupelmid wasps	0	0	0	0	1	2	0	0	1	1
Pteromalidae	pteromalid wasps	1	1	2	13	1	1	1	4	2	2
Cynipidae	gall wasps	0	0	0	0	1	1	0	0	0	0
Ceraphronidae	ceraphronid wasps	0	0	0	0	0	0	0	0	1	1
Scelionidae	scelionid wasps	1	11	1	2	1	1	0	0	0	0
Platygasteridae	platygasterid wasps	0	0	0	0	0	0	1	5	1	2
Formicidae	ants	1	5	1	3	0	0	0	0	0	0
Andrenidae	andrenid bees	1	1	0	0	0	0	0	0	0	0
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	0	0	1	1	1	2
Araneidae	orb weavers	0	0	1	2	0	0	1	3	1	1
Thomisidae	crab spiders	1	1	1	1	0	0	1	1	0	0
Salticidae	jumping spiders	1	27	0	0	1	2	1	1	1	1
ACARI	ticks and mites										
Unknown		1	22	0	0	0	0	0	0	0	0
	TOTALS	38	232	17	68	13	27	23	59	17	29

Table 2.3-79. Numbers and percentages of invertebrates within each feeding type taken in aerial sweep samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2P[1/]		Site 2J		Site 3P		Site 3J	
	#	%	#	%	#	%	#	%	#	%
Herbivores	113	48.7	14	20.6	14	51.9	27	45.8	12	41.4
Flower feeders	41	17.7	20	29.4	8	29.6	14	23.7	4	13.8
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	0	0.0	2	2.9	0	0.0	1	1.7	2	6.9
Omnivores	5	2.2	3	4.4	0	0.0	0	0.0	0	0.0
Predators	57	24.6	29	42.6	5	18.5	15	25.4	7	24.1
Unknown	16	6.9	0	0.0	0	0.0	2	3.4	4	13.8

1/ Designations of 3P, 2J, 3P, and 3J refer to sample results for pinyon and juniper analyzed separately

Table 2.3-80. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by aerial sweep sampling at all sites during September 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
THYSANOPTERA											
Unknown		1	2	0	0	0	0	0	0	0	0
HEMIPTERA											
Miridae	plant bugs	1	4	1	1	1	1	1	1	0	0
HOMOPTERA											
Cicadellidae	leafhoppers	1	5	0	0	0	0	0	0	0	0
Aphididae	aphids	1	2	0	0	0	0	0	0	0	0
Coccoidea	scales	0	0	0	0	0	0	0	0	1	4
COLEOPTERA											
Coccinellidae	ladybird beetles	1	1	0	0	0	0	0	0	2	3
Chrysomelidae	leaf beetles	1	2	0	0	0	0	0	0	1	1
NEUROPTERA											
Chrysopidae	green lacewings	0	0	0	0	0	0	0	0	1	1
LEPIDOPTERA											
Unknown		1	2	0	0	0	0	0	0	0	0
DIPTERA											
Tephritidae	fruit flies	0	0	1	1	0	0	0	0	0	0
Chloropidae	chloropid flies	0	0	1	1	0	0	0	0	1	1
Anthomyiidae	anthomyiid flies	1	2	0	0	0	0	0	0	0	0
HYMENOPTERA											
Braconidae	braconid wasps	0	0	0	0	1	1	1	1	0	0
Eulophidae	eulophid wasps	1	1	1	1	1	1	0	0	1	2
Encyrtidae	encyrtid wasps	0	0	0	0	0	0	0	0	2	2
Eupelmidae	eupelmid wasps	0	0	0	0	1	1	0	0	0	0
Pteromalidae	pteromalid wasps	2	5	1	1	1	3	1	1	1	1
Platygasteridae	platygasterid wasps	1	33	0	0	0	0	0	0	0	0
Formicidae	ants	0	0	0	0	1	1	0	0	0	0
ARANEIDA											
Dictynidae	dictynid spiders	0	0	0	0	0	0	0	0	1	1
Araneidae	orb weavers	0	0	1	1	0	0	1	2	1	4
Oxyopidae	lynx spiders	0	0	0	0	1	1	1	3	1	2
Thomisidae	crab spiders	0	0	0	0	0	0	0	0	1	1
Salticidae	jumping spiders	1	9	0	0	1	2	0	0	0	0
ACARI	ticks and mites										
Unknown		1	1	0	0	0	0	0	0	0	0

Table 2.3-80 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2P A	 B	Site 2J A	 B	Site 3P A	 B	Site 3J A	 B
	TOTALS	14	69	6	6	8	11	5	8	14	23

Table 2.3-81. Numbers and percentages of invertebrates within each feeding type taken in aerial sweep samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2P [1/]		Site 2J		Site 3P		Site 3J	
	#	%	#	%	#	%	#	%	#	%
Herbivores	15	21.7	1	16.7	1	9.1	1	12.5	5	21.7
Flower feeders	36	52.2	2	33.3	3	27.3	1	12.5	5	21.7
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Omnivores	0	0.0	0	0.0	1	9.1	0	0.0	0	0.0
Predators	16	23.2	2	33.3	6	54.5	6	75.0	13	56.5
Unknown	2	2.9	1	16.7	0	0.0	0	0.0	0	0.0

[1/] Designations of 2P, 2J, 3P, and 3J refer to sample results for pinyon and juniper analyzed separately

Table 2.3-82. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during July 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
PSOCOPTERA											
Unknown		0	0	1	16	0	0	0	0	1	64
HEMIPTERA											
Unknown		1	64	1	64	1	64	1	12	0	0
HOMOPTERA											
Unknown		0	0	1	32	1	128	1	80	0	0
Cicadellidae	leafhoppers	1	208	0	0	0	0	0	0	0	0
Delphacidae	delphacid planthoppers	1	64	0	0	0	0	0	0	0	0
Psyllidae	psyllids	0	0	2	80	0	0	0	0	3	96
COLEOPTERA											
Unknown		1	96	1	112	1	80	1	24	0	0
Scydmaenidae	antlike stone beetles	0	0	1	16	0	0	0	0	0	0
Dasytidae	soft-winged flower beetle	0	0	0	0	0	0	0	0	1	80
Cleridae	checkered beetles	0	0	2	112	1	16	1	4	0	0
Coccinellidae	ladybird beetles	1	16	0	0	0	0	1	4	0	0
Mordellidae	tumbling flower beetles	0	0	0	0	0	0	0	0	1	32
Scarabaeidae	scarab beetles	0	0	0	0	1	16	1	4	0	0
NEUROPTERA											
Hemerobiidae	brown lacewings	0	0	1	16	1	16	1	12	0	0
Chrysopidae	green lacewings	0	0	1	16	0	0	1	4	0	0
Berothidae	beaded lacewings	0	0	0	0	1	16	0	0	0	0
Myrmeleontidae	antlions	0	0	0	0	0	0	1	8	0	0
LEPIDOPTERA											
Unknown		1	304	1	624	1	224	2	356	1	400
Satyridae	satyrs and wood nymphs	0	0	0	0	1	48	1	4	0	0
Lycaenidae	gossamer-winged butterflies	0	0	1	16	0	0	0	0	0	0
Sphingidae	sphinx moths	0	0	0	0	0	0	1	4	0	0
DIPTERA											
Psychodidae	moth flies-sand flies	1	16	0	0	0	0	0	0	0	0
Ceratopogonidae	biting midges	1	16	1	16	0	0	1	4	1	64
Chironomidae	midges	1	64	0	0	1	1296	1	12	2	560
Mycetophilidae	fungus gnats	1	16	0	0	0	0	0	0	0	0
Sciaridae	dark-winged fungus gnats	1	32	1	48	1	176	1	16	1	272
Cecidomyiidae	gall midges	2	592	1	432	1	1392	1	68	1	496

Table 2.3-82 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Therevidae	stiletto flies	0	0	1	32	1	64	1	8	1	80
Asilidae	robber flies	1	48	0	0	1	96	0	0	0	0
Bombyliidae	bee flies	1	256	1	16	1	16	0	0	1	16
Dolichopodidae	long-legged flies	2	48	0	0	1	48	1	8	0	0
Phoridae	humpbacked flies	1	128	0	0	1	64	0	0	1	32
Pipunculidae	big-headed flies	1	144	1	80	1	32	1	20	1	32
Syrphidae	syrphid flies	0	0	1	32	0	0	0	0	0	0
Tephritidae	fruit flies	0	0	0	0	0	0	0	0	1	64
Sepsidae	black scavenger flies	0	0	0	0	0	0	0	0	1	16
Chamaemyiidae	aphid flies	1	48	1	48	0	0	1	22	1	16
Sphaeroceridae	small dung flies	0	0	1	112	0	0	0	0	0	0
Chloropidae	chloropid flies	0	0	2	96	1	176	2	16	1	48
Agromyzidae	leaf-miner flies	0	0	1	64	0	0	0	0	0	0
Trixoscelididae	trixoscelidid flies	0	0	0	0	0	0	0	0	1	16
Anthomyiidae	anthomyiid flies	3	288	3	96	1	32	4	72	3	96
Calliphoridae	blow flies	2	64	0	0	0	0	1	4	0	0
Tachinidae	tachinid flies	3	336	2	32	0	0	1	4	1	16
HYMENOPTERA											
Braconidae	braconid wasps	1	64	3	112	3	128	3	32	2	128
Ichneumonidae	ichneumonid wasps	6	112	1	32	1	16	2	8	1	16
Mymaridae	fairyflies	0	0	0	0	1	32	0	0	1	48
Eulophidae	eulophid wasps	0	0	0	0	1	48	0	0	0	0
Encyrtidae	encyrtid wasps	0	0	0	0	0	0	1	4	0	0
Pteromalidae	pteromalid wasps	0	0	0	0	2	32	1	4	1	48
Chalcididae	chalcid wasps	0	0	0	0	1	48	0	0	1	16
Proctotrupidae	prototrupid wasps	1	32	0	0	0	0	0	0	0	0
Diapriidae	diapriid wasps	0	0	0	0	1	16	0	0	0	0
Chrysididae	cuckoo wasps	3	48	0	0	1	32	1	4	0	0
Tiphiidae	tiphiid wasps	0	0	1	16	1	48	2	8	0	0
Mutillidae	velvet ants	0	0	0	0	1	16	0	0	0	0
Formicidae	ants	3	384	0	0	0	0	2	32	1	16
Vespidae	paper wasps	0	0	1	16	0	0	0	0	0	0
Pompilidae	spider wasps	0	0	0	0	2	64	0	0	0	0
Sphecidae	sphecid wasps	6	192	1	16	1	16	1	4	0	0
Andrenidae	andrenid bees	3	128	0	0	0	0	0	0	0	0

Table 2.3-82 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Halictidae	halictid bees	1	64	1	16	0	0	2	12	0	0
Megachilidae	leafcutting bees	0	0	1	16	0	0	1	4	0	0
	TOTALS	52	3872	39	2432	36	4496	45	882	32	2768

Table 2.3-83. Numbers and percentages of invertebrates within each feeding type taken in Malaise trap samples at each site during July 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	272	7.0	112	4.6	144	3.2	92	10.4	96	3.5
Flower feeders	1616	41.7	1168	48.0	2400	53.4	488	55.3	1632	59.0
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	192	5.0	32	1.3	64	1.4	4	0.5	112	4.0
Omnivores	384	9.9	0	0.0	0	0.0	32	3.6	16	0.6
Predators	144	3.7	160	6.6	240	5.3	40	4.5	192	6.9
Unknown	1264	32.6	960	39.5	1648	36.7	226	25.6	720	26.0

Table 2.3-84. Number of species groups (A) and total number of individuals (B) for invertebrate taxa collected by Malaise trap sampling at all sites during September 1976 for RBOSP

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
ORTHOPTERA											
Acrididae	short-horned grasshoppers	0	0	1	4	0	0	0	0	0	0
PSOCOPTERA											
Unknown		1	12	0	0	0	0	0	0	0	0
HEMIPTERA											
Unknown		0	0	1	8	1	3	0	0	0	0
Miridae	plant bugs	0	0	0	0	0	0	1	2	0	0
HOMOPTERA											
Unknown		0	0	0	0	1	40	0	0	0	0
Cicadellidae	leafhoppers	1	44	1	28	1	4	1	5	1	16
Psyllidae	psyllids	0	0	1	8	0	0	0	0	0	0
COLEOPTERA											
Unknown		1	16	1	4	0	0	0	0	0	0
Cleridae	checkered beetles	1	20	1	12	0	0	0	0	0	0
Coccinellidae	ladybird beetles	0	0	0	0	0	0	1	3	0	0
Scarabaeidae	scarab beetles	1	12	1	4	0	0	1	15	1	4
Chrysomelidae	leaf beetles	0	0	0	0	1	4	0	0	0	0
NEUROPTERA											
Hemerobiidae	brown lacewings	1	4	1	4	0	0	0	0	0	0
LEPIDOPTERA											
Unknown		1	30	1	60	1	56	1	16	1	20
Hesperiidae	skippers	0	0	0	0	1	4	0	0	0	0
DIPTERA											
Ceratopogonidae	biting midges	1	8	1	36	0	0	0	0	0	0
Chironomidae	midges	0	0	2	8	2	28	0	0	2	76
Bibionidae	march flies	1	4	0	0	0	0	2	3	0	0
Mycetophilidae	fungus gnats	1	4	0	0	0	0	0	0	0	0
Sciaridae	dark-winged fungus gnats	0	0	1	24	1	16	1	5	1	164
Cecidomyiidae	gall midges	1	20	1	36	1	44	1	5	1	36
Xylophagidae	xylophagid flies	0	0	0	0	1	4	0	0	0	0
Therevidae	stiletto flies	0	0	2	28	1	4	1	1	1	4
Asilidae	robber flies	1	4	1	4	0	0	1	1	0	0
Bombyliidae	bee flies	2	12	1	8	0	0	0	0	0	0
Dolichopodidae	long-legged flies	0	0	0	0	1	4	0	0	0	0

Table 2.3-84 (continued)

ORDER Family	Common name	Site 1 A	 B	Site 2 A	 B	Site 3 A	 B	Site 4 A	 B	Site 5 A	 B
Phoridae	humpbacked flies	1	4	1	4	0	0	1	1	1	4
Pipunculidae	big-headed flies	1	20	1	4	1	20	0	0	0	0
Syrphidae	syrphid flies	1	4	0	0	0	0	0	0	0	0
Psilidae	rust flies	1	4	0	0	0	0	0	0	0	0
Sepsidae	black scavenger flies	0	0	1	32	0	0	0	0	1	4
Chamaemyiidae	aphid flies	0	0	0	0	1	4	1	1	0	0
Chloropidae	chloropid flies	2	12	3	15	3	32	2	3	2	20
Agromyzidae	leaf-miner flies	1	4	1	16	0	0	1	1	0	0
Heleomyzidae	heleomyzid flies	0	0	1	4	0	0	0	0	0	0
Anthomyiidae	anthomyiid flies	1	96	2	296	3	176	3	109	1	8
Calliphoridae	blow flies	2	8	0	0	0	0	1	1	0	0
Tachinidae	tachinid flies	0	0	2	28	3	28	3	6	1	24
HYMENOPTERA											
Braconidae	braconid wasps	3	12	4	19	3	60	2	10	1	4
Ichneumonidae	ichneumonid wasps	3	24	3	16	2	12	0	0	1	4
Mymaridae	fairyflies	0	0	1	4	0	0	0	0	0	0
Encyrtidae	encyrtid wasps	0	0	0	0	2	16	1	1	0	0
Pteromalidae	pteromalid wasps	0	0	2	8	0	0	0	0	0	0
Proctotrupidae	prototrupid wasps	0	0	0	0	0	0	1	1	0	0
Scelionidae	scelionid wasps	1	4	0	0	0	0	0	0	1	8
Tiphiidae	tiphiid wasps	0	0	0	0	1	12	0	0	0	0
Formicidae	ants	1	24	0	0	0	0	1	2	0	0
Vespidae	paper wasps	0	0	1	4	0	0	0	0	0	0
Pompilidae	spider wasps	0	0	0	0	1	12	1	1	0	0
	TOTALS	32	406	41	726	33	583	29	193	17	396

Table 2.3-85. Numbers and percentages of invertebrates within each feeding type taken in Malaise trap samples at each site during September 1976 for RBOSP

Feeding type	Site 1		Site 2		Site 3		Site 4		Site 5	
	#	%	#	%	#	%	#	%	#	%
Herbivores	56	13.8	44	6.1	48	8.2	22	11.4	20	5.1
Flower feeders	106	26.1	230	31.7	268	46.0	44	22.8	324	81.8
Fungus feeders	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Saprovores	24	5.9	36	5.0	0	0.0	2	1.0	8	2.0
Omnivores	24	5.9	0	0.0	0	0.0	2	1.0	0	0.0
Predators	36	8.9	64	8.8	4	0.7	4	2.1	0	0.0
Unknown	160	39.4	352	48.5	263	45.1	119	61.7	44	11.1

Pinyon-juniper/south slope (site 2) -

Pitfall samples from the pinyon-juniper/south slope vegetation type yielded a density of 11.86 invertebrates per m in July 1976 due mainly to the large numbers of mites captured (Table 2.3-86). Ants and springtails were the only other groups with greater than 10% of the total captures. Predators dominated the July 1976 captures because nearly all of the mites were in the suborder Prostigmata (Table 2.3-51). By September 1976, pitfall captures were reduced to 245 invertebrates yielding a density estimate of 2.8 invertebrates per m^2 (Table 2.3-87). The low density estimate is a result of daily capture total fluctuations for almost one-half of the invertebrate groups captured. The numerically dominant groups in the September 1976 pitfall samples were mites, ants, and springtails. Predators were again the most abundant feeding type (42% of the captures) and consisted primarily of prostigmatid mites and spiders (Table 2.3-53). The remaining captures were divided among the herbivore, saprovore, omnivore, and unknown feeding categories.

Captures from the litter at the pinyon-juniper/south slope site in July 1976 exhibited densities ranging from 41.6 to 306.7 invertebrates per kilogram of litter for an average of 127.5 and a standard error of 47.4 (Tables 2.3-88 and 2.3-55). The majority of the captures were orbatid mites (65%), elongate-bodies springtails (Entomobryidae - 8%), and ants (7%) (Table 2.3-56). The large number of orbatid mites and elongate-bodied springtails accounts for nearly all of the saprovores. Saprovores contributed 75.1% of the July 1976 litter captures (Table 2.3-57).

An average of 534.9 invertebrates per kilogram of litter was taken from five litter samples at the pinyon-juniper/south slope site in September 1976 (Table 2.3-58). The average is based on a range of densities from 11.0 to 2467.2 invertebrates per kilogram of litter (Table 2.3-89). Elongate bodied springtails (Isotomidae) accounted for 75% of the 1372 captures (Table 2.3-60). The springtails were primarily responsible for the large percentage (90.6%) of saprovores in the samples (Table 2.3-61).

Herbaceous sweep samples from the pinyon-juniper/south slope vegetation contained 51 invertebrates, nearly one-third of which were leafhoppers (Table 2.3-62). All other invertebrate groups captured contributed less than 8 individuals. Herbivores were the most abundant group captured (72.5% of the total) (Table 2.3-63). Nine herbivorous insect species were taken in low numbers in addition to the abundant leafhoppers. Forty-five percent of the 40 invertebrates captured by herbaceous sweeps from the pinyon-juniper/south slope site in September 1976 were evenly divided among three insect families; leafhoppers , leaf beetles (Chrysomelidae), and weevils (Table 2.3-64). All three of the abundant families plus a variety of non-abundant invertebrate groups contributed to the 67.5% of the total herbaceous sweep captures in the herbivore-feeding category (Table 2.3-65).

Table 2.3-86. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	4	0.79	***
COLLEMBOLA	54	10.61	0.90
ORTHOPTERA	2	0.39	0.07
PSOCOPTERA	2	0.39	0.02
THYSANOPTERA	2	0.39	0.02
HEMIPTERA	2	0.39	***
HOMOPTERA	23	4.52	0.48
COLEOPTERA	9	1.77	0.12
LEPIDOPTERA	2	0.39	0.02
DIPTERA	8	1.57	0.12
HYMENOPTERA	84	16.50	1.11
CHELONETHIDA	3	0.59	0.03
SOLPUGIDA	2	0.39	0.04
ARANEIDA	23	4.52	***
ACARI	289	56.78	8.93

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 2/# collected all taxa, site 2) X 100
*** assumptions of density estimation method not met

Table 2.3-87. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	7	2.75	0.06
COLLEMBOLA	38	14.90	***
ORTHOPTERA	1	0.39	0.01
HEMIPTERA	2	0.78	0.02
HOMOPTERA	18	7.06	***
COLEOPTERA	19	7.45	***
DIPTERA	22	8.63	***
HYMENOPTERA	34	13.33	0.53
SCORPIONIDA	1	0.39	0.01
SOLPUGIDA	7	2.75	***
ARANEIDA	20	7.84	***
ACARI	84	32.94	2.15
CAMBALIDA	2	0.78	0.02

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 2/# collected all taxa, site 2) X 100
*** assumptions of density estimation method not met

Table 2.3-88. Results of litter d-vac invertebrate sampling at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
590	112	112.00	890.00	125.8
591	72	72.00	673.00	107.0
592	55	55.00	972.00	56.6
593	44	44.00	1058.00	41.6
594	142	142.00	463.00	306.7

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-89. Results of litter d-vac invertebrate sampling at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
758	19	19.00	364.00	52.2
459	22	22.00	640.00	34.4
760	88	88.00	802.00	109.7
761	15	15.00	1368.00	11.0
462	1204	1204.00	488.00	2467.2

* # of invertebrates in sample X Berlese calibration factor

Trap D-Vac samples taken from shadscale in the pinyon-juniper/south slope vegetation type in July 1976 yielded an average of 1794.2 invertebrates per cubic meter vegetation and a standard error of 612.4 (Table 2.3-68). Variation in the number of invertebrates per cubic meter ranged from 348.1 to 3544.7 (Table 2.3-90). Leafhoppers, globular springtails, and mites contributed 35%, 11%, and 11%, respectively, of the 87 invertebrates captured (Table 2.3-66). The dominant feeding types were herbivore (66.7% of the Trap D-Vac captures) and predator (21.8%) (Table 2.3-69). Leafhoppers and globular springtails made up the majority of herbivores, and the predator feeding category consisted of mesostigmatid mites and a variety of spider families.

Forty-two invertebrates were captured from shadscale in the pinyon-juniper/south slope habitat in September 1976 (Table 2.3-70). The number of invertebrates per cubic meter vegetation ranged from 0 to 2864.8 for an average of 1077.2 and a standard error of 529.6 (Tables 2.3-91 and 2.3-72). Abundant groups captured included leafhoppers (24% of the Trap D-Vac captures), immature ensign scales (Coccoidea - 23%), and dictynid spiders (Dictynidae - 14%).

Beating of pinyon pine foliage from the pinyon-juniper/south slope vegetation type produced 85 invertebrates in July 1976 (Table 2.3-74). Globular springtails contributed 33% and plant bugs contributed 18% of the captures. These two families account for nearly all of the herbivores captured (Table 2.3-75). Globular springtails again accounted for the largest portion of beating captures from pinyon pine at the pinyon-juniper/south slope site in September 1976 (Table 2.3-76). Other abundant groups included mites, scales, and eulophid wasps. Feeding habits were dominated numerically by herbivores which accounted for 53.8% of the September 1976 beating captures. Springtails, scales, and a variety of other insect groups present in small numbers contributed to the herbivore total (Table 2.3-77).

One hundred-seventy five invertebrates were obtained by beating the foliage of juniper in the pinyon-juniper/south slope habitat during July 1976 (Table 2.3-74). Weevils contributed 30% of the captures, globular springtails - 25%, and plant bugs - 17%. The three families accounted for most of the 78.9% of the beating captures in the herbivore feeding type (Table 2.3-75). In September 1976 only 2 weevils were found among the 66 invertebrates captured by beating juniper foliage in the pinyon-juniper/south slope habitat (Table 2.3-76). The bulk of the captures (70%) were globular springtails. Springtails also accounted for the majority of the herbivores, the most numerous feeding type captured in September 1976 beating samples from juniper (Table 2.3-77).

Aerial sweep samples from the foliage of pinyon pine at the pinyon-juniper/south slope site contained 68 invertebrates in July 1976 (Table 2.3-78). Three insect families contained greater than 15%

Table 2.3-90. Results of trap d-vac invertebrate sampling from shadscale (Atriplex confertifolia) at site 2, pinyon-juniper (south slope), during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
622	10	10.00	0.38	0.028731	348.1
623	2	2.00	0.20	0.004189	477.5
624	17	17.00	0.25	0.008181	2077.9
625	29	29.00	0.25	0.008181	3544.7
626	29	29.00	0.28	0.011494	2523.0

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-91. Results of trap d-vac invertebrate sampling from shadscale (Atriplex confertifolia) at site 2, pinyon-juniper (south slope), during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
810	4	4.80	0.20	0.004189	1145.9
811	10	12.00	0.20	0.004189	2864.8
812	0	0.00	0.20	0.004189	0.0
813	0	0.00	0.25	0.008181	0.0
814	28	33.60	0.36	0.024429	1375.4

* # of invertebrates in sample X d-vac and Berlese calibration factors

of the captures including checkered beetles (Cleridae - 12 individuals), pteromalid wasps (Pteromalidae - 13 individuals), and eulophid wasps (18 individuals). Checkered beetles and pteromalid wasps contributed most of the 42.6% of the captures in the predator feeding type (Table 2.3-79). Aerial sweep samples from pinyon pine at the pinyon-juniper/south slope site in September 1976 contained only 6 invertebrates in 6 species groups (Table 2.3-80).

Aerial sweeping of juniper foliage at the pinyon-juniper/south slope site in July 1976 produced 27 invertebrates, 10 of which were weevils (Table 2.3-78). No other invertebrate family contributed more than 2 individuals. The herbivore feeding type contained 51.9% of the total captures due primarily to the large number of weevils (Table 2.3-79). By September 1976, the capture total from beating juniper foliage at the pinyon-juniper/south slope habitat was down to 11 individuals (Table 2.3-80). The most abundant family taken was that of the pteromalid wasps. This family and 2 spider families contributed all of the predators, the most abundant feeding type (Table 2.3-81).

The Malaise trap in the pinyon-juniper/south slope vegetation type contained an estimated 2432 invertebrates in July 1976 (Table 2.3-82). Adult moths and gall midges contributed 43% of the captures. Flower feeders dominated the Malaise trap captures in July 1976. Adult moths and a variety of wasps, bees, and flies contributed to the total (Table 2.3-83). Malaise trap captures dropped from the July 1976 total to 726 invertebrates in September 1976 at the pinyon-juniper/south slope site (Table 2.3-84). Anthomyiid flies contributed 30% of the total followed by braconid wasps and adult moths each with 10% of the total captures. The anthomyiid flies accounted for a large part of the unknown feeding type which was the most abundant feeding type in September 1976 (Table 2.3-85).

Pinyon-juniper/north slope (site 3) -

Results for the pinyon-juniper/north slope group dwelling invertebrates sampled by pitfalls in July 1976 showed 739 individuals captured. The calculated invertebrate density was 218.15 invertebrates per m of which mites accounted for 212.08 of this total (Table 2.3-92). All of the mites captured were in the suborder Prostigmata, explaining the large percentage of pitfall captures (75.4) in the predator feeding type (Table 2.3-51). Four hundred-eleven invertebrates were captured in pitfalls at the pinyon-juniper/north slope habitat in September 1976. However, because mites, the numerically dominant group, did not meet the assumptions for density estimate methods, the calculated density was only 2.76 invertebrates per m (Table 2.3-93). Most of the mites were in the suborder Prostigmata which made predators the most abundant invertebrate group collected (Table 2.3-53).

Table 2.3-92. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	1	0.14	0.01
COLLEMBOLA	54	7.31	0.65
ORTHOPTERA	7	0.95	***
PSOCOPTERA	1	0.14	0.01
THYSANOPTERA	1	0.14	0.01
HEMIPTERA	3	0.41	0.03
HOMOPTERA	6	0.81	0.07
COLEOPTERA	61	8.25	4.24
DIPTERA	7	0.95	0.08
HYMENOPTERA	43	5.82	0.75
CHELONETHIDA	1	0.14	0.01
SOLPUGIDA	1	0.14	0.01
ARANEIDA	17	2.30	0.20
ACARI	536	72.53	212.08

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 3/# collected all taxa, site 3) X 100
*** assumptions of density estimation method not met

Table 2.3-93. Relative abundance and population density estimates * for ground dwelling invertebrates collected by pitfall traps at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP

Taxon	# collected	Relative abundance **	Density (#/M2)
COLLEMBOLA	66	16.06	0.86
ORTHOPTERA	3	0.73	0.03
PSOCOPTERA	4	0.97	0.04
HOMOPTERA	6	1.46	0.07
COLEOPTERA	6	1.46	0.26
LEPIDOPTERA	2	0.49	0.02
DIPTERA	20	4.87	1.05
HYMENOPTERA	22	5.35	0.27
ARANEIDA	7	1.70	0.15
ACARI	274	66.67	***
GEOPHILOMORPHA	1	0.24	0.01

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 3/# collected all taxa, site 3) X 100
*** assumptions of density estimation method not met

Samples from the litter at the pinyon-juniper/north slope site in July 1976 contained invertebrates at densities ranging from 6.9 to 1187.7 invertebrates per kilogram litter (Table 2.3-94). The average number of invertebrates per kilogram litter was 321.6 with a standard error of 222.7 (Table 2.3-55). Ninety-one percent of the captures were in three invertebrate groups, isotomid springtails (57%), mites (24%), and entomobryid springtails (10%). All three groups are detritus feeders explaining why nearly all captures were in the saprovore feeding type (Table 2.3-57). By September 1976, the average density of invertebrates per kilogram litter at the pinyon-juniper/north slope site had declined to 54.5 with a standard error of 14.9 (Table 2.3-58). The average was based on a density range of 8.7 to 99.7 invertebrates per kilogram litter (Table 2.3-95). Numerically dominant groups included ants (29% of litter captures), mites (26%), and springtails and booklice, each with 13% of the litter captures (Table 2.3-60). The omnivore feeding category, which made up 29.4% of the litter captures, consisted entirely of ants. The remaining abundant invertebrate groups accounted for all of the 45.2% of the litter captures in the saprovore feeding type (Table 2.3-61).

A total of 102 invertebrates were captured in herbaceous sweeps from the pinyon-juniper/north slope vegetation type in July 1976 (Table 2.3-62). Psyllids (Psyllidae) contributed 80 individuals, and accounted for much of the numerical dominance of the herbivore feeding type (Table 2.3-63). Only 14 invertebrates were captured from the herbaceous vegetation at the pinyon-juniper/north slope site in September 1976 (Table 2.3-64). Leafhoppers and globular springtails accounted for 43% and 36% of the total, respectively.

Trap D-Vac samples taken from sagebrush at the pinyon-juniper/north slope site contained invertebrates at densities ranging from 435.0 to 27728.3 invertebrates per cubic meter vegetation in July 1976 (Table 2.3-96) The densities give an average of 11,171.9 invertebrates per cubic meter vegetation and a standard error of 4946.5 (Table 2.3-68). Eighty-four percent of the captures were contributed by springtails (62%) and mites (22%), the majority of which were saprovores (Table 2.3-69). Trap D-Vac captures from sagebrush at the pinyon-juniper/north slope site declined to an average of 3004.7 invertebrates per cubic meter vegetation in September 1976 (Table 2.3-72). The average is based on a range of densities from 1046.9 to 6549.6 invertebrates per cubic meter vegetation (Table 2.3-97). Numerically dominant invertebrate groups included leafhoppers (36% of the captures), thrips (17%), dictynid spiders (13%), and scales (11%). The abundant groups were the major contributors to the 74.6% of the total captures in the herbivore feeding type and 23.7% in the predator feeding type (Table 2.3-73).

Beating samples from pinyon pine at the pinyon-juniper/north slope site in July 1976 yielded 152 invertebrates (Table 2.3-74).

Table 2.3-94. Results of litter d-vac invertebrate sampling at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted * #	Litter dry Weight (gm)	# of invertebrates per kilogram litter
595	329	329.00	1118.00	294.3
596	867	867.00	730.00	1187.7
597	97	97.00	905.00	107.2
598	5	5.00	723.00	6.9
599	12	12.00	1007.00	11.9

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-95. Results of litter d-vac invertebrate sampling at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
731	39	39.74	944.00	42.1
732	112	114.11	1144.00	99.7
733	58	59.09	879.00	67.2
734	53	54.00	988.00	54.7
735	10	10.19	1169.00	8.7

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-96. Results of trap d-vac invertebrate sampling from sagebrush (*Artemesia tridentata*) at site 3, pinyon-juniper (north slope), during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
664	18	18.00	0.28	0.011494	1566.0
665	5	5.00	0.28	0.011494	435.0
666	1058	1058.00	0.53	0.077952	13572.5
667	80	80.00	0.23	0.006371	12557.6
668	49	49.00	0.15	0.001767	27728.3

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-97. Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 3, pinyon-juniper (north slope), during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted * #	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
793	18	20.00	0.18	0.003054	6549.6
794	34	37.78	0.41	0.036087	1046.9
795	12	13.33	0.20	0.004189	3183.1
796	24	26.67	0.30	0.014137	1886.3
797	30	33.33	0.30	0.014137	2357.9

* # of invertebrates in sample X d-vac and Berlese calibration factors

Seventy-eight percent of the captures were contributed by 4 insect families, globular springtails, leafhoppers, plant hoppers, and aphids. All are herbivores, which explains the large percentage of beating captures in that feeding type (Table 2.3-75). Of the abundant insect families in July 1976, only aphids were common in the beating samples from pinyon pine at the pinyon-juniper/north slope site in September 1976 (Table 2.3-76). Mites in the suborder Orbatei accounted for over one-half of the beating captures and all of the saprovores, the dominant feeding type represented (Table 2.3-77).

Beating samples from pinyon in the pinyon-juniper/north slope vegetation type in July 1976 contained 28 invertebrates. The most numerous family was that of plant bugs which contributed 5 individuals (Table 2.3-74). Most of the invertebrates captured were included in one of three feeding types, flower feeders (32.1% of the captures), predators (28.6%), and herbivores (17.9%) (Table 2.3-75). Juniper beating samples taken in September 1976 from the pinyon-juniper/north slope vegetation type contained 13 invertebrates (Table 2.3-76). Mites were the numerically dominant group with six individuals.

Aerial sweep samples from pinyon pine foliage at the pinyon-juniper/north slope site in July 1976 contained 59 invertebrates (Table 2.3-78). Plant bugs were the only group to contribute more than 10% of the total captures. Three feeding types contained over 10% of the captures. Herbivores were the numerically dominant group, contributing 45.8% of the captures (Table 2.3-79). By September 1976, the aerial sweep captures from pinyon pine at the pinyon-juniper/north slope site declined to 8 individuals (Table 2.3-80). Five of the captures were spiders which accounts for the high percentage of captures in the predator feeding type (Table 2.3-81).

Sweeping of the foliage of juniper at the pinyon-juniper/north slope site yielded 29 invertebrates in July 1976 (Table 2.3-78). Numerically dominant groups included aphids with five individuals and gall midges with four individuals. Five feeding types contained at least two of the 29 captures led by the herbivore feeding type with 12 individuals (Table 2.3-79). Twenty-three invertebrates were captured from juniper foliage by sweeping in September 1976 at the pinyon-juniper/north slope site (Table 2.3-80). No family contributed more than 4 individuals, but the order Araneida was represented by 8 individuals in four families. The large number of spiders is partly responsible for the high percentage (56.5%) of all captures in the predator feeding type (Table 2.3-81).

Malaise trap captures for the July 1976 sampling period at the pinyon-juniper/north slope habitat contained an estimated 4496 invertebrates. Fifty-nine percent of this total was contributed

by gall midges (30%) and chironomids (Chironomidae - 29%). The dominant feeding type was flower feeders 2ith 53.4% of the captures (Table 2.3-83). Contributors to the flower feeding level included chironomids, adult moths, and a variety of bees, wasps, and flies. By September 1976, the estimated Malaise trap captures from the pinyon-juniper/north slope habitat declined to 583 (Table 2.3-84). Numerically dominant groups also changed from those in July to Anthomyiidae (30% of the captures) and adult moths (70% of the captures) in September.

Sagebrush (site 4)

Pitfall captures from the upland sagebrush vegetation type contained 804 invertebrates in July 1976. Less than 24% of the captures met the assumptions needed for density estimates resulting in a calculated density of 4.66 invertebrates per m (Table 2.3-98). Ants were the numerically dominant group with 58.1% of the captures. Ants were also the only omnivores, the predominant feeding type taken in July 1976 pitfall samples (Table 2.3-51). By September 1976, the pitfall captures from the upland sagebrush habitat had declined to 300 invertebrates, but the density estimate increased to 16.92 invertebrates per m (Table 2.3-99). Three invertebrate groups, flies, ants, and mites, each contributed between 22% and 23% of the total captures. The variety and relatively even distribution of captures among different insect groups accounted for the distribution of captures in different feeding types. Four feeding types contained greater than 20% of the captures led by predators with 27.3% of the captures (Table 2.3-53).

Samples from sagebrush litter at the upland sagebrush site contained 498 invertebrates in July 1976 (Table 2.3-56). Calculated densities ranged from 191.7 to 2398.5 invertebrates per kilogram litter (Table 2.3-100) for an average of 770.8 and a standard error of 412.7 (Table 2.3-55). Seventy-eight percent of the captures were contributed by two invertebrate groups, springtails (40%) and mites (38%). The large number of springtails and mites also accounts for the saprovore feeding type containing 67.7% of all captures (Table 2.3-57). Litter samples taken from the upland sagebrush habitat in September 1976 reached densities ranging from 100.0 to 1759.6 invertebrates per kilogram litter (Table 2.3-101) for an average of 826.9 and a standard error of 293.2 (Table 2.3-58). Mites accounted for 66% of the captures and also contributed most of the saprovores, the largest feeding type (Table 2.3-61).

Herbaceous sweep samples from the upland sagebrush vegetation type contained 40 invertebrates in July 1976 (Table 2.3-62). Leafhoppers and ants contributed the majority of the captures although more than one species group was taken in each family (Table 2.3-62). The numerically dominant feeding types, herbivore and omnivore, reflect the distribution of captures in the abundant families (Table 2.3-63). By September 1976, the herbaceous sweep captures

Table 2.3-98. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 4, sagebrush, during July 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
COLLEMBOLA	44	5.46	1.89
ORTHOPTERA	6	0.74	0.08
THYSANOPTERA	2	0.25	0.03
HEMIPTERA	5	0.62	0.07
HOMOPTERA	98	12.16	***
COLEOPTERA	15	1.86	***
LEPIDOPTERA	3	0.37	0.07
DIPTERA	19	2.36	1.26
SIPHONAPTERA	1	0.12	0.01
HYMENOPTERA	468	58.06	***
ARANEIDA	36	4.47	***
PHALANGIDA	1	0.12	0.01
ACARI	108	13.40	1.24

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 4/# collected all taxa, site 4) X 100
*** assumptions of density estimation method not met

Table 2.3-99. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 4, sagebrush, during September 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
COLLEMBOLA	14	4.67	0.61
ORTHOPTERA	12	4.00	***
HOMOPTERA	46	15.33	15.08
COLEOPTERA	5	1.67	0.07
LEPIDOPTERA	4	1.33	0.03
DIPTERA	71	23.67	***
HYMENOPTERA	66	22.00	0.75
SOLPUGIDA	3	1.00	0.03
ARANEIDA	12	4.00	0.35
ACARI	67	22.33	***

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 4/# collected all taxa, site 4) X 100
*** assumptions of density estimation method not met

Table 2.3-100. Results of litter d-vac invertebrate sampling at site 4, sagebrush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
674	23	23.00	120.00	191.7
675	29	29.00	87.00	333.3
676	319	319.00	133.00	2398.5
677	38	38.00	120.00	316.7
678	89	89.00	145.00	613.8

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-101. Results of litter d-vac invertebrate sampling at site 4, sagebrush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
720	184	214.67	122.00	1759.6
721	94	109.67	91.00	1205.1
722	52	60.67	102.00	594.8
723	12	14.00	140.00	100.0
724	79	92.17	194.00	475.1

* # of invertebrates in sample X Berlese calibration factor

from the upland sagebrush habitat declined to 21 individuals (Table 2.3-64). Leafhoppers were the only group to contribute more than 3 individuals, accounting for 29% of the captures. Leafhoppers were also the major contributors to the numerically dominant herbivore feeding type (Table 2.3-65).

Two hundred forty-five invertebrates were captured by Trap D-Vac sampling of sagebrush from the upland sagebrush vegetation type in July 1976 (Table 2.3-66). Calculated numbers of invertebrates per cubic meter of vegetation ranged from 260.8 to 5362.5 (Table 2.3-102) for an average of 1985.3 and a standard error of 973.2 (Table 2.3-68). Sixty percent of the captures were mites. Trap D-Vac samples from the upland sagebrush site in September 1976 contained 89 invertebrates (Table 2.3-70). Calculated invertebrate densities ranged from 1044 to 4058.5 invertebrates per cubic meter of sagebrush (Table 2.3-103) for an average of 2836.8 and a standard error of 631.3 (Table 2.3-72). Numerically dominant groups were leafhoppers with 32 individuals and platygasterid wasps with 14 individuals (Table 2.3-70). The two abundant families were also the major contributors to the 47.2% of the captures in the herbivore feeding type and 22.5% in the flower feeding type, respectively (Table 2.3-73).

Malaise trap samples taken in the upland sagebrush habitat contained an estimated 882 invertebrates in July 1976 (Table 2.3-82). Forty percent of the captures were adult moths. No other invertebrate group contributed over 10% of the total Malaise captures. A variety of wasps, bees, and flies, as well as the abundant moths, contributed to the flower feeding type which contained 55.3% of the captures. Malaise trap captures from the upland sagebrush habitat declined in September 1976 to 193 individuals. Over one-half of the captures were contributed by three species of anthomyiid flies (Table 2.3-84). The anthomyiid flies also accounted for most of the unknown feeding type which made up 61.7% of the captures (Table 2.3-85).

Mixed-brush (site 5) -

Pitfall results for July 1976 at the mixed brush site revealed a total of 729 invertebrate captures. Nearly all of the captures met the assumptions of the density estimate method, resulting in a calculated density of 40.13 invertebrates per m^2 (Table 2.3-104). Four groups contained greater than 10% of the captures including ants (31.82%), bristletails (18.11%), mites (15.36%), and beetles (Coleoptera - 12.89%). The combined capture totals of bristletails and mites account for nearly all of the saprovores in the feeding type classification. Omnivores, the numerically dominant feeding type, were made up exclusively of ants (Table 2.3-51).

A total of 360 invertebrates was captured in mixed brush habitat pitfalls in September 1976. The two numerically dominant groups, mites and springtails, were not included in the density estimate, resulting in a low estimate of 2.46 invertebrates per m (Table 2.3-105). The majority of the mites captured were in the suborder Orbatei, and combined with springtails, accounted for nearly all of the 43% of the total captures in the saprovore feeding type (Table 2.3-53).

Table 2.3-102. Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 4, sagebrush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
679	30	30.00	0.41	0.036087	831.3
680	19	19.00	0.23	0.006371	2982.4
681	31	31.00	0.61	0.118847	260.8
682	34	34.00	0.51	0.069456	489.5
683	131	131.00	0.36	0.024429	5362.5

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-103. Results of trap d-vac invertebrate sampling from sagebrush (Artemesia tridentata) at site 4, sagebrush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
725	13	13.00	0.25	0.008181	1589.0
726	12	12.00	0.28	0.011494	1044.0
727	15	15.00	0.20	0.004189	3581.0
728	17	17.00	0.20	0.004189	4058.5
729	32	32.00	0.25	0.008181	3911.4

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-104. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 5, mixed brush, during July 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	132	18.11	3.10
COLLEMBOLA	28	3.84	0.39
ORTHOPTERA	9	1.23	0.39
PSOCOPTERA	2	0.27	0.03
THYSANOPTERA	1	0.14	0.01
HEMIPTERA	6	0.82	0.09
HOMOPTERA	27	3.70	***
COLEOPTERA	94	12.89	17.89
LEPIDOPTERA	1	0.14	***
DIPTERA	63	8.64	3.65
HYMENOPTERA	232	31.82	12.59
CHELONETHIDA	1	0.14	0.01
ARANEIDA	21	2.88	0.22
ACARI	112	15.36	1.66

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 5/# collected all taxa, site 5) X 100
*** assumptions of density estimation method not met

Table 2.3-105. Relative abundance and population density estimates* for ground dwelling invertebrates collected by pitfall traps at site 5, mixed brush, during September 1976 for RBOSP

Taxon	# collected	Relative abundance**	Density (#/M2)
THYSANURA	27	7.50	0.27
COLLEMBOLA	57	15.83	***
ORTHOPTERA	3	0.83	0.03
THYSANOPTERA	3	0.83	***
HEMIPTERA	2	0.56	***
HOMOPTERA	14	3.89	***
COLEOPTERA	24	6.67	0.28
DIPTERA	10	2.78	***
HYMENOPTERA	32	8.89	0.46
CHELONETHIDA	4	1.11	***
ARANEIDA	45	12.50	1.42
PHALANGIDA	1	0.28	***
ACARI	138	38.33	***

* catch-effort regression method (Gist and Crossley, Jr.,1973)
** (# collected each taxon, site 5/# collected all taxa, site 5) X 100
*** assumptions of density estimation method not met

Results from litter samples taken in the mixed brush vegetation type in July 1976 yielded a range of 203.8 to 527.1 invertebrates per kilogram of litter (Table 2.3-106) for an average of 328.5 and a standard error of 61.9 (Table 2.3-55). Eighty-one percent of the captures were contributed by three invertebrate groups including mites (42%), ants (20%), and springtails (19%). The numerical dominance of captures in the saprovore feeding type (55.7% of the captures) was also accounted for by the abundance of mites and springtails (Table 2.3-57). Captures from litter samples at the mixed brush site increased to 456 invertebrates in September 1976 (Table 2.3-60). Calculated densitied ranged from 183.2 to 500.0 invertebrates per kilogram litter (Table 2.3-107), giving an average of 372.7 and a standard error of 55.6 (Table 2.3-58). Springtails contributed 62% of the captures and nearly all of the members of the numerically dominant saprovore feeding type (Table 2.3-61).

Herbaceous sweep samples from the mixed brush vegetation type contained 269 invertebrates in July 1976 (Table 2.3-62). Only globular springtails and leafhoppers contained greater than 10% of the captures (Table 2.3-62). Seventy percent of the captures were herbivores, most of which were springtails, leafhoppers, plant bugs, and psyllids (Table 2.3-63). Samples from the herbaceous vegetation of the mixed brush habitat yielded 238 invertebrates in September 1976 (Table 2.3-64). Major contributors to the total were ants, weevils, jumping spiders (Salticidae), globular springtails, and leafhoppers. The combined totals of weevils, springtails, and leafhoppers accounted for most of the 32.8% of the total captures in the herbivore feeding type (Table 2.3-65).

Serviceberry and snowberry were sampled by Trap D-Vac at the mixed brush site. Results of sampling serviceberry in July 1976 yielded density estimates ranging from 313.3 to 5989.3 invertebrates per cubic meter of vegetation (Table 2.3-108). These estimates gave an average of 2823.7 invertebrates per cubic meter of vegetation and a standard error of 1188.8 (Table 2.3-68). Seventy-two percent of the captures were contributed by five invertebrate groups including mites (39%), springtails (16%), leafhoppers (7%), scales (5%), and ants (5%) (Table 2.3-66). Saprovores were the largest feeding type with 44.3% of the captures (Table 2.3-69). By September 1976, invertebrate samples from serviceberry at the mixed brush site declined to 16 individuals (Table 2.3-70). Density estimates ranged from 33.7 to 611.2 invertebrates per cubic meter of vegetation (Table 2.3-109) for an average of 176.4 and a standard error of 109.4 (Table 2.3-72). Psyllids and leafhoppers were the most frequently captured insect groups, accounting for most of the 62.5% of the captures in the herbivore feeding type (Table 2.3-73).

Table 2.3-106. Results of litter d-vac invertebrate sampling at site 5, mixed brush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
639	95	95.00	229.00	414.8
640	53	53.00	260.00	203.8
642	25	25.00	112.00	223.2
696	136	136.00	258.00	527.1
697	52	52.00	190.00	273.7

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-107. Results of litter d-vac invertebrate sampling at site 5, mixed brush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Litter dry Weight (gm)	# of invertebrates per kilogram litter
770	109	110.09	290.00	379.6
771	116	117.16	348.00	336.7
772	100	101.00	202.00	500.0
773	90	90.90	196.00	463.8
774	41	41.41	226.00	183.2

* # of invertebrates in sample X Berlese calibration factor

Table 2.3-108. Results of trap d-vac invertebrate sampling from serviceberry (Amelanchier utahensis) at site 5, mixed brush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
643	9	9.00	0.38	0.028731	313.3
644	16	16.00	0.18	0.003054	5239.7
645	30	30.00	0.30	0.014137	2122.1
646	49	49.00	0.25	0.008181	5989.3
647	54	54.00	0.61	0.118847	454.4

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-109. Results of trap d-vac invertebrate sampling from serviceberry (Amelanchier utahensis) at site 5A, mixed brush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
776	1	1.00	0.30	0.014137	70.7
777	4	4.00	0.41	0.036087	110.8
778	2	2.00	0.41	0.036087	55.4
779	5	5.00	0.25	0.008181	611.2
780	4	4.00	0.61	0.118847	33.7

* # of invertebrates in sample X d-vac and Berlese calibration factors

Trap D-Vac samples from snowberry in the mixed brush vegetation type yielded an average density of 914.8 invertebrates per cubic meter of vegetation and a standard error of 431.0 (Table 2.3-68). The average is based on a range of densities from 249.4 to 2566.9 invertebrates per cubic meter vegetation (Table 2.3-110). One-half of the captures were contributed by moth immatures, halictid bees (Halictidae), and mites (Table 2.3-66). Five feeding types each contained greater than 10% of the captures including predators (25%), herbivores (25%), flower feeders (20%), omnivores (15%), and unknowns (12.5%) (Table 2.3-69).

September Trap D-Vac samples from snowberry at the mixed brush site contained 23 invertebrates and averaged 451.5 invertebrates per cubic meter of vegetation (Tables 2.3-70 and 2.3-72). The average is based on a range of calculated densities from 0 to 848.8 invertebrates per cubic meter vegetation (Table 2.3-111). Platygasterid wasps and leafhoppers were the only insect groups contributing more than 3 individuals (Table 2.3-70). Herbivores and predators each contributed 34.8% of the Trap D-Vac captures for September (Table 2.3-73).

Malaise trap samples from the mixed brush vegetation type yielded 2768 invertebrates in July 1976 (Table 2.3-82). Chironomid, gall midge, and adult moth captures accounted for 52% of the total invertebrates taken. A variety of wasps, bees, flies, and adult moths accounted for the high percentage (59%) of captures in the flower feeding type (Table 2.3-83). By September 1976 Malaise trap captures from the mixed brush habitat declined to 396 invertebrates (Table 2.3-84). Forty-one percent of the captures were dark-winged fungus gnats (Sciaridae). Flower feeding insects, including the dark-winged fungus gnats, accounted for 81.8% of the captures (Table 2.3-85).

Table 2.3-110. Results of trap d-vac invertebrate sampling from snowberry (Symphoricarpos oreophilus) at site 5B, mixed brush, during July 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted # *	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
648	4	4.00	0.20	0.004189	954.9
649	9	9.00	0.41	0.036087	249.4
650	21	21.00	0.25	0.008181	2566.9
651	2	2.00	0.23	0.006371	313.9
652	4	4.00	0.25	0.008181	488.9

* # of invertebrates in sample X d-vac and Berlese calibration factors

Table 2.3-111. Results of trap d-vac invertebrate sampling from snowberry (Symphoricarpos oreophilus) at site 5B, mixed brush, during September 1976 for RBOSP

Sample #	# of invertebrates in sample	Adjusted * #	Plant Diameter(M)	Plant Volume(M3)	# of invertebrates per cubic meter
782	9	13.50	0.36	0.024429	552.6
783	2	3.00	0.36	0.024429	122.8
784	4	6.00	0.25	0.008181	733.4
785	8	12.00	0.30	0.014137	848.8
786	0	0.00	0.41	0.036087	0.0

* # of invertebrates in sample X d-vac and Berlese calibration factors

2.3.9.5 Terrestrial Invertebrates Raw Data

TERRESTRIAL INVERTEBRATES RAW DATA

83.C.11.3.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: Greasewood 1

Collection Date(s): July 1976 Veg. Type or Plant Sp.:

Sampling Means Litter Dvac Sorting Means Hand

Taxonomist & Date Started: DP 9/1/76 Coll Ref. No.: YEALD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight 146g 236g 654g 519g 137g ~~Plant Size~~ Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number								
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											

lrm 9-27-7[illegible]

geology consultants, inc.

83.C.11.32

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 93 Rio Blanco Site Name & No.: South P-T 2

Collection Date(s): July 1976 Veg. Type or Plant Sp.:

Sampling Means LITTER DVAC Sorting Means HAND

Taxonomist & Date Started: DP 9/3/76 Coll Ref. No.: 83 R LC

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 890 693 992 1058 463 Plant Size Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: July 197[illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number [illegible]									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												

bmw 9-27-74
ecology consultants, inc.

83 C 11.32

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 78 Rio Blanco Site Name & No.: North Pit 3

Collection Date(s): July 1976 Veg. Type or Plant Sp.:

Sampling Means Litter DVAC Sorting Means Hand

Taxonomist & Date Started: DF 9/2/76 Coll Ref. No.: 78 C 11.6

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 1118 730 905 723 1007 Plant Size Field Log Number									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
			2			
			3			
			4			
			5			
			6			
			7			
			8			
[illegible]	[illegible]		9	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		10	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		11	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		12	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		13	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		14	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		15	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		16	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		17	[illegible]	[illegible]	[illegible]
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

[illegible] 9-27-76

83.C.11.3.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: [illegible] Site Name & No.: [illegible] 4

Collection Date(s): [illegible] Veg. Type or Plant Sp.:

Sampling Means [illegible] Sorting Means [illegible]

Taxonomist & Date Started: [illegible] Coll Ref. No.: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 120 87 133 120 145 Plant Size Field Log Number 1,628									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Page 2 of 2

Project: [illegible] Site: UPLAND [illegible] Ref. No.: 82 C 10 Date: JULY 19[illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number [illegible]									
			1												
			2												
			3												
			4												
[illegible]	[illegible]		35	[illegible]	[illegible]		[illegible]		1	[illegible]					
			6												
			7												
			8												
			9												
[illegible]	[illegible]		40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]		41	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]					
			2												
			3												
			4												
			5												
			6												
[illegible]	[illegible]		47	[illegible]	[illegible]	[illegible]									
			8												
			9												
[illegible]	[illegible]		50	[illegible]	[illegible]										
[illegible]	[illegible]		51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]		52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]		53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]		54	[illegible]	[illegible]					[illegible]					
[illegible]	[illegible]		55	[illegible]	[illegible]		[illegible]								
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

[illegible] 9-27-7[illegible]

P3 C.11.3.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: [illegible] Branch CT

Collection Date(s): July 1976 Veg. Type or Plant Sp.:

Sampling Means LITTER DVAC Sorting Means BERLESE

Taxonomist & Date Started: DP 9/14/76 Coll Ref. No.: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 229 260 112 258 190 Plant Size Field Log Number [illegible]									
			1												
[illegible]			2												
			3												
[illegible]			4												
			5												
			6												
			7												
			8												
			9												
			10												
[illegible]			11												
			12												
			13												
[illegible]			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
33	055		25	A		1				5					
			26												
			27												
			28												
			29			1			1						
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Page 2 of 2

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number [illegible]
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3	A	P	
			4			
			5			
			6	A	P	
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-27-76

225-2/63076

ecology consultants, inc.

83.0.11.35

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slp /2

Collection Date(s): July 76 Veg. Type or Plant Sp.: Juos

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: FEK 26 Aug 76 Coll Ref. No.: 83BR Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number (G21)
17	029		1	I	H	28
			2			
			3			
35	000		4	U	PI	5
			5			
			6			
33	077		7	U	P	3
33	07-0		8	U	P	4
			9			
			10			
			11			
			12			
			13			
			14			
			15			
04	005		16	U	H	45
17	000		17	I	U	1
			18			
19	122		19	A	H	93
			20			
			21			
			22			
			23			
			24			
			25			
27	017		26	A	F	5
			27			
			28			
			29			
16	00		30	A	H	3

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

3 2

Page 2 of 2

Project: 83 Site: 2 Ref. No.: EBB Trees Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			621
			2			
17	024		3	A	H	2
			4			
17	012		5	A	H	4
19	022		6	I	H	3
	029		7	A	P	5
27	011		8	A	F	2
17	012		9	A	F	1
27	042		0	A	F	1
27	014		1	A	F	1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			

Form 9-27-2

83.C.11-5.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip /2

Collection Date(s): July 76 Veg. Type or Plant Sp.: Pied

Sampling Means Beating Sorting Means ~~Hand~~ Berlese

Taxonomist & Date Started: EK 26 Aug 76 Coll Ref. No.: 23 B. B Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 630
35	000		1	U	P	2
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
19	043		10	A	P	5
			11			
			12			
			13			
17	000		14	I	C	15
			15			
16	000		16	A	P	2
			17			
27	061		18	A	O	5
04	005		19	U	U	25
			20			
			21			
			22			
			23			
			24			
27	029		25	A	P	2
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

Page 2 of 2

Project: 83 Site: 2 Ref. No.: 83BB Field Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
			6	I	H	2
			7			
			8	V	P	4
			9			1
			40	U	H	4
			1			
			2			
			3			
			4	H	P	6
			5			
			6			
			7			
			8			
			9	A	P	2
			50			2
			1			2
			2	I		1
			3	A	H	2
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-27-76
ecology consultants, inc.

83.9.1135

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood /1

Collection Date(s): July 76 Veg. Type or Plant Sp.: Artr

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEIC 25Aug 76 Call Ref. No.: 83A13

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 695									
			1												
27	019		2	A	F	2									
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
19	017		11	U	H	28									
			12												
			13												
24	010		14	I	(H)	12									
33	071		15	A	P	62									
			16												
			17												
			18												
			19												
			20												
			21												
19	003		22	I	H	3.6									
			23												
			24												
17	021		25	A	P	3									
			26												
17	032		27	A	H	2									
27	061		28	A	O	4									
19	084		29	I	P	6									
17	024		30	A	H	5									

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Project: 83 Site: 1 Ref. No.: 83A B Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
17	024		31	I	H	43
			2			
			3			
			4			
			5			
			6			
18	003		7	I	H	2
			8			
			9			
			10			
			1			
27	022		2	A	F	1
			3			
			4			
			5			
24	009		6	A	F	4
16	009		7	L	H	59
16	009		8	L	H	372
			9			
			20			
18	032		1	I	H	17
			2			
			3			
			4			
			5			
32	071		6	A	F	1
33	029		7	A	F	3
			8			
			9			
			10			
27	014		1	A	F	1
			2			
			3			
12	060		4	L	H	4
21	057		5	A	F	2
27	021		6	A	F	1
17	025		7	A	F	2
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin Junip North Slp /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: Pied

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: Bell 26 Aug 76 Coll. Ref. No.: 83 C 1 B Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 272									
			1												
17	000		2	I	U	2									
			3												
35	000		4	U	P	2									
33	077		5	U	P	2									
33	077		6	U	P	2									
33	020		7	U	P	2									
18	003		8	I	H	24									
17	000		9	I	U	24									
			10												
			11												
27	014		12	A	F	1									
27	014		13	A	F	2									
			14												
			15												
27	001		16	A	O	1									
			17												
18	017		18	U	H	9									
24	005		19	A	F	2									
16	000		20	U	H	2									
			21												
			22												
27	029		23	A	P	1									
			24												
			25												
			26												
			27												
			28												
16	000		29	U	H	1									
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: _____

Project: 93 Site: 3 Ref. No.: 83C B Red Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 172									
			31												
			2												
			3												
			4												
			5												
			6												
33	061		7	U	P	2									
			8												
			9												
			40												
			1												
22	069		2	I	P	1									
22	001		3	A	P	2									
M	045		4	A	F	1									
19	114		5	A	L	1									
19	125		6	A	U	1									
19	124		7	A	F	1									
04	005		8	U	U	60									
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

bmw 9-27-76

ecology consultants, inc.

83.C.113.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip NorthSlp /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: Juni

Sampling Means Forceps Sorting Means Berlese

Taxonomist & Date Started: DSK 27Aug76 Coll Ref. No.: 83C R Juni

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number (mg)									
17	024		1	I	H	5									
			2												
[illegible]	[illegible]		3	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]		4	[illegible]	[illegible]	[illegible]									
			5												
			6												
			7												
			8												
			9												
[illegible]	[illegible]		10	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]		11	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]		12	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]		13	[illegible]	[illegible]	[illegible]									
[illegible]	[illegible]		14	[illegible]	[illegible]	[illegible]									
			15												
			16												
			17												
			18												
[illegible]	[illegible]		19	[illegible]	[illegible]	[illegible]									
			20												
27	024		21	[illegible]	F	[illegible]									
			22												
			23												
[illegible]	[illegible]		24	[illegible]	[illegible]	[illegible]									
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Page 2 of 2

Project: 83 Site: 3 Ref. No.: 83C B Jmos Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
27	032		3	A	F	1
27	029		4	A	P	1
27	037		5	A	F	1
19	043		6	A	P	2
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-27-76

83.C.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slp /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: Juncs

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: EEK 31 Aug 76 Coll Ref. No.: 83C AS Juncs

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 671									
17	024		1	A	H	2									
			2												
22	041		3	A	P	1									
			4												
32	041		5	A	P	1									
			6												
			7												
			8												
			9												
			10												
			11												
			12												
16	018		13	A	H	2									
16	020		14	A	H	1									
			15												
			16												
			17												
			18												
			19												
21	019		20	A	P	1									
21	024		21	A	P	1									
			22												
			23												
			24												
21	023		25	A	P	1									
17	024		26	A	H	1									
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bcm 9-27-76

Project: 13 Site: 3 Ref. No.: 830 15 Inv. Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
			6			
			7			
27	0.1		8	A	P	1
			9			
27	04		40	A	P	1
22	0.0		1	A	P	2
22	0.1		2	A	P	1
14	02		3	A	H	2
17	02		4	A	H	1
12	00		5	A	O	2
29	00		6	A	U	4
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Lum 9-27-76

83.C.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slp /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: Pied

Sampling Means Aerial Sw'p Sorting Means Hand

Taxonomist & Date Started: ZEL 30 Aug 76 Coll Ref. No.: 63 C AS Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 670
			1			
22	079		2	U	P	1
22	079		3	U	P	1
			4			
			5			
			6			
			7			
			8			
17	024		9	F	H	10
			10			
			11			
			12			
18	019		13	A	H	1
19	003		14	J	H	7
12	000		15	A	S	1
			16			
25	081		17	A	F	1
			18			
			19			
			20			
25	049		21	A	F	5
			22			
27	029		23	A	P	4
			24			
27	012		25	A	F	2
			26			
			27			
			28			
16	000		29	A	H	1
24	000		30	A	F	1

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hsm 9-27-76

Project: 83 Site: 3 Ref. No.: 83 CAS Prd Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number (Cru)
25	023		31	A	U	2
			2			
22	009		3	I	P	1
32	020		4	I	P	1
			5			
			6			
			7			
			8			
			9			
27	018		40	A	F	3
			1			
			2			
22	[illegible]		3	A	F	2
22	[illegible]		4	A	P	2
27	[illegible]		5	A	F	1
17	[illegible]		6	A	F	1
04	035		7	A	H	2
22	047		8	A	P	2
25	026		9	A	F	1
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-2 76

83.0.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 123 Site Name & No.: Grassland-sage / 1

Collection Date(s): July 76 Veg. Type or Plant Sp.: Ar-tr

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: BELL 27 Aug 76 Coll Ref. No.: 73 A S

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
27	014		1	A	F	7
27	014		2	A	F	1
			3			
			4			
			5			
			6			
			7			
			8			
17	000		9	J	U	1
			10			
19	110		11	A	H	1
			12			
			13			
			14			
33	077		15	A	P	1
33	079		16	A	P	23
16	000		17	P	H	2
			18			
19	125		19	A	P	1
19	074		20	J	P	2
17	021		21	A	P	1
			22			
			23			
			24			
			25			
17	024		26	A	H	5
			27			
17	024		28	A	H	17
			29			
17	025		30	A	P	2

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

Project: 83 Site: 1 Ref. No.: 83A AS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 6U									
			31												
			2												
			3												
			4												
27	012		5	A	F	1									
			6												
27	043		7	A	F	11									
			8												
			9												
			40												
			1												
			2												
			3												
			4												
27	018		5	A	F	1									
16	001		6	A	H	2									
16	002		7	U	H	11									
			8												
			9												
[illegible]	[illegible]		50	[illegible]	[illegible]	1									
[illegible]	[illegible]		1	[illegible]	[illegible]	1									
19	013		2	A	H	5									
16	004		3	A	H	1									
			4												
19	003		5	A	H	37									
			6												
			7												
17	029		8	A	B	3									
			9												
			60												
			1												
24	000		2	A	F	6									
			3												
			4												
27	017		5	A	F	1									
			6												
			7												
27	018		8	A	F	16									
			9												
			70												
27	029		1	A	F	1									
35	002		2	U	F	24									
4	[illegible]		3	A	H	1									
			4												
			5												
			6												
17	12[illegible]		7	A	B	1									
			8												
			9												
35	00[illegible]		80	A	F	4									

Sent 9-27 76

Project: R3 Site: 1 Ref. No.: 83A AS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Species Class	Field Log Number
27	061		41	A	U	5
17	252		2	A	U	6
29	015		3	A	U	4
2[illegible]	0[illegible]		4	A	U	3
2[illegible]	0[illegible]		5	A	U	8
2-9	256		6	A	U	2
[illegible]	[illegible]		7	A	U	13
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-27-76

83.C.1156

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin Jump South Slp /2

Collection Date(s): July 76 Veg. Type or Plant Sp.: Juos

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: BEK 30 Aug 76 Coll Ref. No.: 83 B AS Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
17	024		1	J	H	1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
19	027		9	A	H	10
17	024		10	A	P	1
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
27	043		20	A	H	1
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-27-76

Project: 83 Site: 2 Ref. No.: 83BAS Jues Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
33	079		2	A	P	2
			3			
27	012		4	A	F	1
27	022		5	A	F	1
27	029		6	A	P	1
			7			
27	014		8	A	F	2
2	003		9	A	H	3
27	023		10	A	F	2
27	037		1	A	F	1
22	009		2	A	P	1
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Leon 7-27-76

83C.1136

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pit-Tunnel South Slp /2

Collection Date(s): July 76 Veg. Type or Plant Sp.: Pied

Sampling Means Aerial Slp Sorting Means Hand

Taxonomist & Date Started: BEK 30 Aug 76 Coll Ref. No.: 83B 15 Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 222									
			1												
			2												
			3												
			4												
			5												
			6												
32	017		7	A	P	2									
19	042		8	A	P	1									
19	043		9	A	P	13									
17	024		10	A	H	2									
19	102		11	A	H	10									
			12												
			13												
			14												
12	020		15	A	S	1									
27	061		16	A	O	3									
			17												
21	041		18	A	I	4									
27	016		19	A	F	11									
27	019		20	A	F	1									
27	021		21	A	F	2									
22	004		22	A	GF	1									
			23												
			24												
			25												
			26												
			27												
			28												
			29												
32	017		30	A	P	1									

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Jrm 9-27-76

Project: 83 Site: 2 Ref. No.: 83B AS Pied Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 62-9									
			1												
			2												
			3												
			4												
27	018		5	A	F	6									
			6												
27	029		7	A	F	11									
			8												
			9												
			40												
			1												
			2												
19	042		3	A	P	1									
17	022		4	A	H	2									
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Form 9-2.7-76

83.0.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slp /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Herb cups Sorting Means Hand

Taxonomist & Date Started: BCK 12 Sept 76 Coll Ref. No.: 83CHS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 669
			1			
27	061		2	A	O	1
			3			
			4			
			5			
			6			
			7			
25	021		8	A	P	1
			9			
			10			
			11			
17	02		12	A	P	1
13	02 2		13	A	H	1
			14			
			15			
19	04 2		16	A	P	1
			17			
27	016		18	A	F	1
			19			
			20			
			21			
27	018		22	A	F	1
			23			
			24			
16	003		25	A	H	1
16	003		26	A	H	1
04	004		27	U	H	5
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bcm 9-27-76

Project: 83 Site: 3 Ref. No.: 83CHS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			669
			2			
			3			
			4			
18	016		5	A	H	80
			6			
18	018		7	U	H	2
			8			
			9			
			40			
25	042		1	A	S	1
			2			
			3			
			4			
			5			
19	023		6	A	H	1
27	029		7	A	P	3
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Form 9-27-76

83.C.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pit Jump South Sp /

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Herb. Swp. Sorting Means Hand

Taxonomist & Date Started: EHK 1 Sept 76 Coll Ref. No.: 83B HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 624
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
25	[illegible]		9	A	[illegible]	3
			10			
			11			
			12			
			13			
			14			
33	02[illegible]		15	A	[illegible]	1
			16			
19	002		17	[illegible]	H	2
17	013		18	[illegible]	H	3
			19			
			20			
			21			
			22			
27	011		23	A	P	1
04	005		24	[illegible]	H	2
29	000		25	[illegible]	[illegible]	2
19	040		26	A	P	1
			27			
			28			
17	024		29	A	H	1
13	[illegible]		30	J	H	1

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 9-27-76

ecology consultants, inc.

Project: 83 Site: 2 Ref. No.: E3B 115 Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 627
			31			
12	016		2	A	H	3
			3			
			4			
			5			
17	024		6	A	H	6
			7			
			8			
			9			
19	003		40	A	H	11
			1			
			2			
			3			
			4			
			5			
			6			
19	123		7	A	H	4
			8			
[illegible]	[illegible]		9	A	P	1
			50			
			1			
			2			
			3			
			4			
25	061		5	A	O	2
			6			
			7			
			8			
			9			
[illegible]	[illegible]		60	A	[illegible]	1
			1			
			2			
			3			
			4			
17	024		5	A	H	1
12	003		6	A	H	2
[illegible]	[illegible]		7	A	[illegible]	1
[illegible]	[illegible]		8	A	[illegible]	1
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Sum 9-27-76

83 C.U.S.J

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /73 Site Name & No.: Evergreen Pond /1

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Hand sup Sorting Means Hand

Taxonomist & Date Started: RHK 31 Aug 76 Coll Ref. No.: 83A 115

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
27	014		1	A		3
27	021		2	A		—
			3			
27	021		4	A		1
			5			
			6			
27	014		7	A	F	2
			8			
27	016		9	A	F	2
			10			
27	018		11	A	F	10
			12			
			13			
19	036		14	A	H	5
			15			
			16			
			17			
19	23		18	A	H	18
			19			
			20			
			21			
			22			2
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hrm 9-27-76

Project: 93 Site: 1 Ref. No.: 83A HS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number (cont)
			31			
33	077		2	A	P	3
			3			
			4			
			5			
16	000		6	A	H	51
			7			
16	000		8	A	H	10
			9			
33	079		40	A	P	5
			1			
17	0??		2	A	H	1
			3			
17	0??		4	A	H	2
17	024		5	A	H	3
17	000		6	A	H	4
			7			
24	031		8	A	H	2
			9			
24	031		50	A	H	1
			1			
			2			
27	037		3	A	H	1
27	018		4	A	H	19
			5			
27	016		6	A	H	9
27	029		7	A	P	10
27	029		8	A	P	3
27	029		9	A	P	4
			60			
27	022		1	A	H	5
			2			
			3			
			4			
			5			
16	002		6	A	H	6
16	003		7	A	H	12
			8			
			9			
28	033		70	A	P	1
			1			
			2			
			3			
			4			1
			5			3
			6			
24	01		7	A	H	2
			8			
			9			
			80			11

Form 9-27-

Project: 83 Site: 1 Ref. No.: 83AHS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
16	020		4	A	H	18
16	000		5	A	H	5
16	000		6	J	H	250
			7			
27	049		8	A	F	2
			9			
27	027		10	A	F	2
17	01		11	A	F	2
			12			
			13			
			14			
			15			
			16			
19	015		17	I	H	61
			18			
			19			
			20			
			21			
			22			
19	010		23	A	H	3
			24			
			25			
			26			
24	000		27	A	F	1
			28			
			29			
			30			
			31			
24	047		32	A	F	2
			33			
27	027		34	A	F	8
			35			
			36			
			37			
27	049		38	A	F	1
			39			
			40			
			41			
			42			
			43			
			44			
			45			
			46			
27	000		47	A	F	4
			48			
			49			
			50			

form 9-27
ecology consultants, inc.

83.0.11.3.d

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed Brush /5

Collection Date(s): July 76 Veg. Type or Plant Sp.: ____

Sampling Means Herb vac Sorting Means Hand

Taxonomist & Date Started: BEK 15 Sept 76 Coll Ref. No.: 835 HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 653
			1			
			2			
27	061		3	A	C	17
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
17	024		16	A	H	1
			17			
			18			
			19			
18	005		20	I	H	3
			21			
			22			
			23			
			24			
			25			
			26			
19	043		27	A	P	16
			28			
19	123		29	A	H	13
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bem 9-27-76

Project: 83 Site: 5 Ref. No.: 83 5 HS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number (83)
			31			
			2			
			3			
			4			
			5			
			6			
18	018		7	A	H	4
			8			
17	024		9	A	H	1
			40			
17	024		1	A	H	2
17	024		2	I	H	4
17	024		3	I	H	2
17	024		4	A	H	5
17	024		5	A	H	1
			6			
			7			
			8			
			9			
17	024		50	A	H	24
			1			
			2			
			3			
			4			
			5			
			6			
23	014		7	A	F	7
			8			
			9			
			60			
			1			
			2			
23	018		3	A	F	5
			4			
23	018		5	A	F	2
			6			
23	018		7	A	F	1
21	029		8	A	P	2
21	029		9	A	P	1
			70			
			1			
22	005		2	A	P	1
			3			
04	005		4	A	H	63
			5			
			6			
			7			
			8			
			9			
			80			

Project: 83 Site: 5 Ref. No.: 835 HS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			120			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Project: 63 Site: 5 Ref. No.: 735 HS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
25	056		131	A	U	3
25	041		2	A	F	5
25	041		3	A	F	2
25	040		4	A	U	2
11	054		5	I	H	7
			6			
			7			
17	025		8	A	P	2
14	032		9	A	H	3
24	016		140	A	F	11
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Lum 9-27-76
geology equivalent

83.C.113.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Upland sage /4

Collection Date(s): July 76 Veg. Type or Plant Sp.:

Sampling Means Herb vac Sorting Means Hand

Taxonomist & Date Started: BEK 1 Sept 76 Coll Ref. No.: 83D HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 6229
27	061		1	A	O	10
			2			
27	061		3	A	O	4
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
19	003		12	A	H	10
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
10	012		25	A	H	2
			26			
			27			
			28			
			29			
33	079		30	A	H	4

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Project: 83 Site: 4 Ref. No.: 83DHS Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
32	010		31	A	P	1
			2			
27	016		3	A	F	2
			4			
			5			
			6			
			7			
			8			
25	015		9	A	U	1
			40			
			1			
15	003		2	A	H	1
3	003		3	A	H	5
			4			
			5			
			6			
			7			
			8			
			9			
			50			
04	002		1	U	P	1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
15	003		9	A	H	1
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

225-2/63076

Ecology consultants, Inc.

53.C.1153

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 163 Site Name & No.: Grassy Area (C

Collection Date(s): July 1976 Veg. Type or Plant Sp.: Rabbitbrush

Sampling Means Trap Dgac Sorting Means B Hose

Taxonomist & Date Started: BH 23Aug76 Coll Ref. No.: 8% A TD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size cm 30 20 66 41 41 Field Log Number 605 606 [illegible] 608 609									
[illegible]	[illegible]		1	A	[illegible]	2									
			2												
			3												
			4												
			5												
			6												
[illegible]			7	A	[illegible]			1		2					
[illegible]	[illegible]		8	A	[illegible]	6		6							
			9												
[illegible]	[illegible]		10	[illegible]	[illegible]	[illegible]		[illegible]	7	6					
			11												
[illegible]	[illegible]		12	[illegible]	[illegible]				1						
			13	[illegible]	[illegible]			1							
[illegible]	[illegible]		14	[illegible]	[illegible]	1		2							
			15												
[illegible]	[illegible]		16	[illegible]	[illegible]			2							
[illegible]	[illegible]		17	A	[illegible]				3						
			18												
			19												
			20												
			21												
			22												
			23												
			24												
[illegible]			25	[illegible]	[illegible]	1		1		1					
			26												
			27												
			28	[illegible]	[illegible]		2	2	2	3					
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

Project: 82 Site: (1) Ref. No.: 734TD Date: July 1974

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			21												
			2												
			3												
			4												
			5												
			6												
			7												
32	072		8	J	P					3					
			9												
			40												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
32	077		9	A	P				1	2					
			50												
			1												
			2												
			3												
19	[illegible]		4	I	[illegible]										
			5												
			6												
			7												
			8												
			9												
			60												
[illegible]	[illegible]		1	J	[illegible]				1						
			2												
			3												
			4												
			5												
			6												
10	[illegible]		7	A	[illegible]										
			8												
			9												
			70												
			1												
			2												
			3												
			4												
			5												
[illegible]	[illegible]		6	J	[illegible]				[illegible]	1					
			7												
			8												
			9												
15	[illegible]		80	A	[illegible]				2						

Lorm 9-27-74

Project: 83 Site: (1) Ref. No.: 83-TD Date: July 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			1												
24	000		2	A	C		1								
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
18	003		12	A	H			6	4						
			13												
19			14	I	A										
			15												
18			16	A						2					
			17												
27			18												
			19												
32			20	A											
			21												
24			22	A											
23			23					1							
21			24		A			1							
19			25	A				1							
19			26	A				1							
17	037		27	I	H					1					
			28												
			29												
			30												
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												
			41												
			42												
			43												
			44												
			45												
			46												
			47												
			48												
			49												
			50												
			51												
			52												
			53												
			54												
			55												
			56												
			57												
			58												
			59												
			60												

Jerry 9-27-76

83.C.1133

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 183 Site Name & No.: Pin-Junip South S

Collection Date(s): July 76 Veg. Type or Plant Sp.: Shadscale Mo

Sampling Means Trap Blac Sorting Means Berlese

Taxonomist & Date Started: [illegible] 24 Aug 76 Call Ref. No.: 83 BTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Sex or Class	Litter Dry Weight Plant Size cm 38 20 25 25 28 Field Log Number [illegible] [illegible] [illegible] [illegible] 626
			1			
			2			
[illegible]	[illegible]		3	[illegible]	[illegible]	1
			4			
[illegible]	[illegible]		5	[illegible]	[illegible]	1
[illegible]	[illegible]		6	[illegible]	[illegible]	1 1
			7			
			8			
			9			
			10			
[illegible]	[illegible]		11	[illegible]	[illegible]	2 1
			12			
			13	[illegible]	[illegible]	1
			14	[illegible]	[illegible]	1 1
			15			
			16			
			17			
			18			
			19	[illegible]	[illegible]	1
			20	[illegible]	[illegible]	1
			21			
[illegible]	[illegible]		22	[illegible]	[illegible]	1
			23			
[illegible]	[illegible]		24	[illegible]	[illegible]	3 2 2
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Project: 83 Site: 2 Ref. No.: 83BTD Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 622 623 624 625 626									
			31												
			2												
25	513		3	A	P	1									
			4												
			5												
33	572		6	L	P			1	1						
0	110		7	A	P			1							
			8												
			9												
			40												
			1												
18	662		2	A	H				1						
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			50												
			1												
			2												
14	537		3	A	H	1					1				
			4												
19	116		5	A	H						3				
04	105		6	A	H			2	4		4				
			7												
			8												
			9												
1	133		60	A	H	1		1	1						
			1												
			2												
			3												
04	203		4	A	S			2							
			5												
			6												
2	000		7	A	P	4		1	3		2				
			8												
			9												
			70												
			1												
18	130		2	A	H	1									
27	667		3	A	I		1								
14	019		4	A	H			1							
			5	A	H										
22	225		6	A	A				3						
22	041		7	A	S				1		1				
21	014		8	A	I						1				
27	029		9	A	P						1				
			80												

Sum 9-27-76

83 C 1135

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slp / 3

Collection Date(s): July 1976 Veg. Type or Plant Sp.: Artr

Sampling Means Trap DVac Sorting Means Berlese

Taxonomist & Date Started: BEK 5 Aug 76 Coll Ref. No.: 83CTD-

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size cm 28 28 53 23 15 Field Log Number									
27	061		1	A	O	2		2	3						
27	061		2	A	O			1	2	23					
			3												
			4												
11	005		5	A	P			2							
			6												
			7												
27	061		8	A	O			12							
			9												
			10												
			11												
			12												
32	020		13	A	P			1							
			14												
			15												
			16												
35	022		17	U	U	2	4	23	25	4					
			18												
25	014		19	A	P					1					
32	025		20	A	P	1		11							
			21												
			22												
			23												
19	000		24	U	U			4	1						
35	022		25	A	U					3					
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Dmw 9-27-76

Project: 63 Site: 5 Ref. No.: 83 CTD Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
27	000		31	A	F			2							
			2												
04	005		3	U	H	1	1								
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			1												
04	005		2	U	H			4	7	1					
			3												
			4												
			5												
18	023		6	I	H	1		21	6	5					
			7												
			8												
			9												
			50												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
18	000		9	A	H	1		5	5						
22	000		60	L	P			3	2						
			1												
25	001		2	A	F	1				1					
24	022		3	A	F	1									
16	020		4	A	H	1			2	2					
19	000		5	A	H	1			1						
19	042		6	A	P	1									
11	057		7	J	P			1							
17	034		8	A	H			1							
24	022		9	J	(H)			1							
04	001		70	H	C			758	1						
27	000		1	A	P				1						
17	002		2	J	H				1	1					
19	034		3	J	H				1						
24	000		4	A	F				12						
22	001		5	A	P					1					
25	005		6	A	J					1					
25	011		7	A	I					1					
25	015		8	A	P					3					
25	004		9	A	P					2					
			0												

Lee 8-27-76

83.C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Sage /4

Collection Date(s): July 76 Veg. Type or Plant Sp.: Arty

Sampling Means TDVAC Sorting Means Berl

Taxonomist & Date Started: UK 5Aug76 Coll Ref. No.: 83DTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size cm 41 23 61 51 36 Field Log Number C19 C20 C21 C22 C23									
			1												
			2												
27	001		3	A	A			4		1					
27	061		4	A	O				1						
27	061		5	A	O	3		1	1						
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
17	032		15	A	H			1							
			16												
			17												
17	024		18	J	H			2							
			19												
15	020		20	A	H	1									
33	071		21	A	P				2						
27	061		22	A	O	1	1								
			23												
33	071		24	A	P	1		1	2	1					
33	071		25	A	P	2		1	3	1					
			26												
15	022		27	A	H	1	1								
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Arm 9-27-76

Project: 83 Site: 4 Ref. No.: 83DID Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 679	680	681	82	83
			1							
			2							
18	016		3	A	H					1
			4							
			5							
			6							
			7							
			8							
			9							
			40							
			1							
			2							
			3							
			4							
25	000		5	U	U	11	10	8	1	17
			6							
19	123		7	A	H	1				2
25	014		8	A	F			1		
19	023		9	J	H	2	4	2	10	2
			50							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
25	000		60	A	F		1	2	5	1
			1							
			2							
			3							
11	013		4	U	H				3	
16	000		5	A	H	1				
			6							
16	003		7	A	H					1
19	003		8	J	H			1	3	2
			9							
			70							
19	002		1	A	H			1		
3	001		2	J	P	1		1		
			3							
			4							
			5							
11	004		6	U	S	1				
19	004		7	A	H		1	2	2	2
19	015		8	A	H			1		
21	021		9	A	P			1		
21	022		0	A	P				1	

4-27-76

83.C 1133

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco 132 Site Name & No.: Mixed Pinon 5

Collection Date(s): July 76 Veg. Type or Plant Sp.: Artem

Sampling Means: TDVAC Sorting Means Berlese

Taxonomist & Date Started: BK 24 Aug 76 Call Ref. No.: 735 TD Arth

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size cm 38	18	30	25	61
						Field Log Number 643	644	645	646	647
			1							
27	6.1		2	A	O			4		2
27	6.1		3	A	O				3	
			4							
27	6.1		5	A	O			1		
27	6.1		6	A	O					1
			7	A	O	1	1			
36	10.3		8	A	P		3		12	2
1	10.3		9	A	P				14	12
12	10.3		10	A	P			1	2	2
5	10.3		11	A	P	1				
			12							
			13							
			14							
19	12.3		15	A	H	1				
			16							
19	12.3		17	I	U	2				
19	12.1		18	I	H	1				
			19							
			20							
			21							
			22							
			23							
			24							
			25							
			26							
			27							
			28							
11	2.2		29	U	H			3		
			30							

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 9-27-76

Project: 73 Site: 5a Ref. No.: [illegible] Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 643	644	645	646	647
			31							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
35	000		9	U	[illegible]			2	9	32
25	003		40	A	C			1	1	
			1							
25	004		2	A	P			1		
			3							
			4							
			5							
19	005		6	I	H			7		
			7							
17	004		8	I	H		1			
19	005		9	I	H	3		4		
			50							
24	004		1	A	P			1	1	
16	000		2	U	H		1			
			3							
			4							
			5							
29	000		6	A	P			1		
			7							
			8							
			9							
14	00		60	U	H			1	3	
			1							
18	002		2	I	H		1			
			3							
			4							
			5							
			6							
			7							
			8							
18	005		9	I	H				1	
			70							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							

Jones 9-27-76

Project: 23 Site: 5 Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			21												
22	29		2	A	E				1	1					
			3												
			4												
			5												
			6												
			7												
			8												
			9												
27	04		90	A	P		1	1	1						
19	02		1	A	P		1	2							
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

bcm 9-27-76

ecology consultants, inc.

83.C.1133

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed brush /56

Collection Date(s): July 76 Veg. Type or Plant Sp.: Symph

Sampling Means DVAC Sorting Means Berlese

Taxonomist & Date Started: Bell 25 Aug 76 Call Ref. No.: 83STD Symph

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size 20 41 25 23 25 Field Log Number 648 649 650 651 652									
27	001		1	A	O				1						
			2												
27	001		3	A	O	1	1								
27	001		4	A	O		2								
27	001		5	A	O				1						
			6												
			7												
35	100		8	U	S	1									
			9												
			10												
			11												
			12												
[illegible]			13	A	U		1								
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
15	022		24	A	U			4		1					
			25												
			26												
			27												
			28												
19	123		29	A	U		1	1							
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-27-76

ecology consultants, inc.

Project: 83 Site: 5b Ref. No.: 835TD Supp Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 648	649	650	651	652
			31							
			2							
25	013		3	A	P			1		
			4							
			5							
3	000		6	A	P	1	1	2		1
			7							
14	000		8	A	H		3			
			9							
15	003		40	I	H			2		1
			1							
			2							
			3							
17	04		4	A	H			1		
			5							
			6							
			7							
			8							
			9							
			50							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			60							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			70							
			1							
			2							
			3							
			4							
			5							
			6							
24	021		7	A	P	1		2		
			8							
			9							
			80							

Lund 9-27-76

ecology consultants, inc

Project: B3 Site: 5b Ref. No.: 8350 Sample Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number (146 152 [illegible] 152)									
			01												
			02												
24	080		03	A	F				4						
19	085		04	A	F						1				
			05												
			06												
			07												
			08												
			09												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												
			41												
			42												
			43												
			44												
			45												
			46												
			47												
			48												
			49												
			50												
			51												
			52												
			53												
			54												
			55												
			56												
			57												
			58												
			59												
			60												
			61												
			62												
			63												
			64												
			65												
			66												
			67												
			68												
			69												
			70												
			71												
			72												
			73												
			74												
			75												
			76												
			77												
			78												
			79												
			80												

Ecology consultants, Inc.

83.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Grassland /1

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means —

Taxonomist & Date Started: [illegible] 1 Apl 76 Coll Ref. No.: E3AM

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
[illegible]	[illegible]		3	A	S	16
[illegible]	[illegible]		4	A	H	10
			5			
[illegible]	[illegible]		6	A	S	12
[illegible]	[illegible]		7	A	S	14
[illegible]	[illegible]		8	A	H	4
			9			
			10			
			11			
			12			
[illegible]	[illegible]		13	A	[illegible]	2
[illegible]	[illegible]		14	A	[illegible]	2
			15			1
			16			
			17			
[illegible]	[illegible]		18	A	I	272
			19			
			20			
			21			
			22			
			23			
[illegible]	[illegible]		24	A	H	4
			25			
			26			
			27			
[illegible]	[illegible]		28			4
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

~~Data~~ represent results from 1/16 sub sample

x 16

QA Check: [illegible] 9-27-76

Project: 93 Site: 1 Ref. No.: 83A M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
25	012		9	A	U	190
25	004		40	A	P	16
25	012		1	A	U	117
			2			
25	01		3	A	P	16
25	01		4	A	P	16
25	01		5	A	P	16
			6			
25	01		7	A	P	22
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
25	01		1	A	P	124
			2			
			3			
			4			17
			5			16
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			12
			7			
			8			
			9			
			80			

Sam 9-27-76

Project: 83 Site: 1 Ref. No.: 83AM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Breeding Class	Field Log Number
			1			
			2			
			3			
			4			
17	[illegible]		5	J	H	69
			6			
			7			
[illegible]	[illegible]		8			6
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			2
			7			
			8			
			9			
			[illegible]			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
23	[illegible]		1	A	U	32
			2			
			3			
			4			
			5			
			6			
			7			
17	[illegible]		8	A	U	64
			9			
17	[illegible]		120	A	U	295
			1	A		12
			2			
			3			
			4			
			5			93
			6			
			7			30
			8			
			9			
			130			

Lisa 9-27-76

Project: 83 Site: 1 Ref. No.: 83AM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
27	015		151	A	F	16
			2			
			3			
			4			
			5			
			6			35b
			7			
			8			
			9			
			160			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			170			
			1			
25	025		2	A	P	42
			3			
25	027		4	A	P	29b
			5			
			6			
25	040		7	A	P	12
			8			
			9			
			180			
			1			
			2			
			3			
			4			
			5			
			6			
			7			21
			8			
			9			
			190			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			200			

Sims 9-27-76

Project: 83 Site: 1 Ref. No.: 83AM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

9-27-76
ecology consultants, inc.

83.C.11.37

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /23 Site Name & No.: Upland Sage /4

Collection Date(s): July 76 / Veg. Type or Plant Sp.: ———

Sampling Means Malaise Sorting Means None

Taxonomist & Date Started: DEK 23 Sept 76 Coll Ref. No.: 93 D M

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
			3			
			4			
			5			
21	015		6	A	P	2
2	014		7	A	P	3
			8			
			9			
			10			
			11			
			12			
			13			
23	09		14	A	P	1
23	09		15	A	P	2
			16			
			17			
23	014		18	A	P	2
25	020		19	A	P	12
			20			
25	002		21	A	G	3
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. ____ from Field Log No. ____

Berlese Calib. Field Log No. ____ from Field Log No. ____

totals represent total for 1/4 subsample X 4

QA Check: hrm 9-27-76

Project: 73 Site: 4 Ref. No.: 83 D M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feedirs Class	Field Log Number
			1			
27	068		2	A	F	8
			3			
			4			
			5			
24	005		6	A	F	4
			7			
22	014		8	A	F	2
			9			
			10			
			11			
19	005		12	A	H	9
19	020		13	A	C	12
			14			
			15			
			16			
			17			
29	050		18	A	F	1
			19			
			20			
			21			
			22			
29	015		23	A	F	4
			24			
			25			
			26			
			27			
			28			
			29			
27	014		30	A	F	2
			31			
			32			
			33			
			34			
			35			
			36			
22	005		37	A	H	4
22	015		38	A	F	2
			39			
			40			
			41			
			42			
			43			
			44			
21	021		45	A	F	1
			46			
			47			
			48			
24	001		49	A	C	25
			50			

Lem 8-27-76

Project: 73 Site: 4 Ref. No.: 73D M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 417
			1			
			2			
			3			
			4			
25	102		5	A	F	4
			6			
			7			
25	035		8	A	U	32
25	035		9	A	U	12
25	035		10	A	U	20
25	035		11	A	U	8
			12			
25	044		13	A	U	20
			14			
			15			
25	061		16	A	U	22
			17			
25	051		18	A	F	12
			19			
			100			
			1			
			2			
25	040		3	A	P	8
25	021		4	A	I	4
25	051		5	A	F	8
			6			
			7			
			8			
			9			
25	101		110	A	S	4
			1			
			2			
			3			
			4			
19	093		5	A	P	4
			6			
22	066		7	A	P	12
			8			
			9			
			120			
			1			
			2			
			3			
			4			
			5			
27	012		6	A	F	4
			7			
			8			
27	014		9	A	F	8
			130			

Page 1 of 4

Project: 83 Site: 4 Ref. No.: 83DM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Reading Class	Field Log Number
19	028		1	A	H	4
4	034		2	A	F	4
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			150			
			1			
			2			
			3			
24	013		4	F	F	4
			5			
24	013		6	A	F	4
14	[illegible]		7	A	F	4
3	[illegible]		8	A	F	4
23	[illegible]		9	A	U	4
23	[illegible]		160	F	U	4
23	030		1	A	F	4
23	[illegible]		2	A	F	4
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			170			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			

Brm 9-27-76

225-246076

83.C.1137

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: North P-J /3

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means None

Taxonomist & Date Started: BBK 22 Sept 76 Coll Ref. No.: 83CM

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
22	015		15	A	I	2									
			16												
			17												
			18												
			19												
			20												
19	003		21	A	F	1									
			22												
24	020		23	A	F	2									
			24												
			25												
			26												
			27												
			28												
			29												
25	014		30	A	F	12									

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

totals represent total
for 1/16 subsample X 16

QA Check: bm 9-27-76

Project: 83 Site: 3 Ref. No.: 83C #1 Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Sexdiff Class	Field Log Number
25	020		31	A	F	17
25	023		2	A	M	12
			3			
25	042		4	A	F	64
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
27	043		20	A	F	31
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
27	044		29	A	I	22
			30			
27	047		1	A	P	2
27	050		2	A	F	11
			3			
			4			
29	046		5	A	F	32
			6			
			7			
			8			
			9			
25	027		10	A	F	11
			11			
25	044		12	A	M	57
			13			
			14			
			15			
25	045		16	A	M	3
			17			
			18			
			19			
			20			

Form 9-27

Project: 83 Site: 3 Ref. No.: 83C M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 316									
			71												
20	081		2	A	F	178									
			3												
			4												
			5												
25	031		6	A	F	64									
25	040		7	A	P	48									
			8												
17	102		9	A	H	16									
			10												
			1												
			2												
			3												
			4												
24	105		5	A	F	48									
			6												
			7												
			8												
24	225		9	A	F	50									
			10												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
19	201		9	A	H	64									
19	209		10	A	H	128									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			20												
			1												
27	017		2	A	F	48									
27	017		3	A	F	16									
			4												
			5												
			6												
			7												
			8												
			9												
			30												

Jerm 8-27-76

Project: 43 Site: 3 Ref. No.: 73C M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			131			
			2			
19	000		3	A	C	90
			4			
			5			
22	008		6	A	P	16
			7			
			8			
			9			
			140			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
27	015		150	A	F	12
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
22	011		9	A	P	13
27	015		160	A	F	13
27	065		1	A	F	32
27	063		2	A	F	32
22	003		3	A	P	16
27	014		4	A	F	2
27	022		5	A	F	12
27	020		6	A	F	32
			7			
			8			
			9			
			170			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Lrm 9-27-

83.C.113.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: South P-J /2-

Collection Date(s): July 76 Veg. Type or Plant Sp.:

Sampling Means Malaise 22 Sept 76. Sorting Means None

Taxonomist & Date Started: BEK Coll Ref. No.: 83BM

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
15	064		1	A	U	43
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
25	113		11	A	[illegible]	16
25	[illegible]		12	A	[illegible]	[illegible]
25	031		13	A	[illegible]	[illegible]
			14			
			15			
			16			
			17			
			18			
15	095		19	A	U	49
25	015		20	A	U	[illegible]
25	103		21	A	F	16
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bem 9-27-76

Project: 83 Site: 2 Ref. No.: 83BM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
21	068		31	A	I	15
			2			
			3			
			4			
			5			
21	024		6	A	I	43
			7			
			8			
			9			
25	023		40	A	K	42
			1			
			2			
			3			
			4			
29	024		5	A	K	48
			6			
34	009		7	A	I	6
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5	A		7
22	009		6	A	I	16
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
32	025		6	A	E	45
			7			
			8			
			9			
			70			
			1			
19	035		2	A	I	14
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Jun 9-27-76

225-2/62076

Project: 83 Site: 2 Ref. No.: 83BM Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
25	021		7	A	F	49
25	021		8	A	[illegible]	112
27	025		9	A	C	16
			10			
			1			
			2			
			3			
27	025		4	A	F	40
			5			
			6			
23	021		7	A	F	46
19	000		8	A	[illegible]	112
[illegible]	[illegible]		9	A	[illegible]	[illegible]
[illegible]	[illegible]		10	A	F	96
19	[illegible]		1	A	[illegible]	15
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
19	000		6	A	[illegible]	112
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			

[illegible] 8-27-76

Project: 83 Site: 2 Ref. No.: 83 B M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Sex & Reproductive Class	Field Log Number
17	115		131	A	1	32
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
			1			
			2			
25	013		3	A	F	16
			4			
2	093		5	A	F	64
			6			
			7			
			8			
			9			
			150			
			1			16
			2			6
			3			6
			4			16
			5			16
			6			16
			7			4
			8			2
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Lim 9-27-76
ecology consultants, inc.

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco / 83 Site Name & No.: Mixed brush (5)

Collection Date(s): July 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means None

Taxonomist & Date Started: BEK 21 Sept 76 Coll Ref. No.: 83 5 M

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

Totals represent 1/16 subsample
total x 16

QA Check: bmw 9-27-76

Page 2 of 4

Project: 73 Site: 5 Ref. No.: 735M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
1	24		2	F	C	16
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
2	22		9	A	F	16
			80			

225-2/63076

Lim 9-27-76
geology consultants, inc.

Project: 93 Site: 5 Ref. No.: 835M Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
25	103		81	A	F	16
			2			
			3			
			4			
25	225		5	A	U	16
25	244		6	A	U	32
25	261		7	A	S	16
25	256		8	A	U	64
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
27	029		2	A	F	32
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			120			
			1			
			2			
			3			
27	029		4	A	F	16
27	042		5	A	F	16
			6			
			7			
			8			
			9			
	030		130	A	F	80

bm 9-27-76

Project: 83 Site: 5 Ref. No.: 83A11 Date: July 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Sex/Instar Class	Field Log Number
19	017		1	A	F	32
12			2	A	S	
18			3	A		
19			4	A		47
21			5	A		112
22	016		6	A		42
23			7	A		5
24			8			61
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Lum 9-27-76

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 RIO BLANCO Site Name & No.: SOUTH P.T / 2

Collection Date(s): [illegible] 1976 Veg. Type or Plant Sp.: PINON-JUNIPER

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: DE 8/25/76 Call Ref. No.: 83 CPF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 661	662	663	665	660	664	691	692	700	715
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			[illegible]												
20	661		14	A	O	5			2	4	3	5		1	2
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: July 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Breeding class	Field Log Number									
19	[illegible]		[illegible] 1	A	H				1	1					
			2												
[illegible]	[illegible]		3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]				[illegible]	[illegible]
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]					[illegible]				[illegible]	
			1												
			2												
[illegible]	[illegible]		[illegible] 3	[illegible]	[illegible]		[illegible]		[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
			4												
			5												
24	020		6	I	H	1			1						
			7												
			8												
			9												
			0												
[illegible]	[illegible]		[illegible] 1	[illegible]	[illegible]				1	1				1	[illegible]
			2												
			3												
			4												
			5												
			6												
			7												
			8												
[illegible]	[illegible]		[illegible] 9	[illegible]	[illegible]					1				1	
			0												
			1												
			2												
			3												
[illegible]	[illegible]		[illegible] 4	[illegible]	[illegible]						1			1	
			5												
[illegible]	[illegible]		[illegible] 6	[illegible]	[illegible]		[illegible]			1		1			[illegible]
			7												
			[illegible] 8	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]
			9												
[illegible]	[illegible]		[illegible] 0	[illegible]	[illegible]		[illegible]			[illegible]	[illegible]		1		

[illegible] 9-27-76

225-2/63076

ecology consultants, inc.

Project: 83 Rio Blanco Site: South Pit 2(E) Ref. No.: 83 APP Date: July 1983

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
17	000		83BIP 1	4	11	1
69	000		2	A	S	2 1 1 1 21 12 3 2 3
			3			
			4			
			5			
			6			
16	000		7			1 1
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
29	000		7			1 1
			8			
39	000		9			1 2
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
19	000		2			1
19	000		3			1
			4			
25	000		5			1 1 1 2
1	000		6			1 1
			7			
24	000		8			6 10 11 24 21 24 12
30			9			2 1 1 1 4 2 2
56	000		0			1
19	000		1			1
25	000		2			3 1 2
27	000		3			2 1
14	000		4			1
			5			
			6			
			7			
			8			
			9			
			0			

225-2/63076

Geology consultants, Inc.

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 93 Rio Blanco Site Name & No.: Greenhouse 1

Collection Date(s): July 1976 Veg. Type or Plant Sp.: Sagebrush - Grass

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: DE 8/23/76 Coll Ref. No.: 230PF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
30	661		17	A	D	14	11	32	39	8	5	0	9	11	
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
19	005		31	A	P	1									
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
29	001		41	A	S	2	1	5	2	2	4	3		1	4
			2												
			3												
			4												
			5												
			6												
			7												
			8												
19	005		49	A	P								1		
			0												
			1												
			2												
			3												
19	005		54	A	H	1									
			5												
			6												
			7												
			8												
19	005		59	A	P								1		
			0												
			1												
19	005		62	A	P								1		
29	001		63	A	S				2		1		1		1
			4												
			5												
			6												
			7												
			8												
			9												
			0												
02	020		71	A	S	9	2	7	2	7	6	11	9	2	12
02	020		72	A	S		1			1					1
			3												
17	020		74	I	H	2	1	1	2	1	2	3	6	2	1
34	020		75	A	S	1	1		1						1
1	020		76	A	S	3	1			1		1			
11	003		77	A	H	1			1		2	1			
			8												
31	001		79	A	S	3		3	2	1	1		1		2
1	020		80	A	S	2			1			1	2	2	3

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
[illegible]	[illegible]		91	A	P						2	2			
[illegible]	[illegible]		92	A	H			1			7	1	1	1	
[illegible]	[illegible]		93	A	P		1				7	1			
			4												
			5												
			6												
			7												
[illegible]	[illegible]		98	A	H				1		1				
[illegible]	[illegible]		99	A	H			1						2	3
[illegible]	[illegible]		100	A	P	1									
			1												
			2												
[illegible]	[illegible]		103	A	M	1		1			1			1	
			4												
			5												
			6												
[illegible]	[illegible]		107	A	F		1		1				1		
			8												
			9												
[illegible]	[illegible]		110	A	F			1		1				1	
			1												
[illegible]	[illegible]		112	A	O	1	1		1	1					
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
[illegible]	[illegible]		132	[illegible]	[illegible]			1	1						
			3												
[illegible]	[illegible]		134	[illegible]	[illegible]	1	1				15	2	1		
[illegible]	[illegible]		135	[illegible]	[illegible]	17	[illegible]	11	47	13	[illegible]	44	44	12	[illegible]
[illegible]	[illegible]		136	[illegible]	[illegible]	7	[illegible]	21	12	7	[illegible]	12	10	8	6
[illegible]	[illegible]		137	[illegible]	[illegible]	1									
[illegible]	[illegible]		138	[illegible]	[illegible]	1	[illegible]	3	9	10	11	12	21	6	4
[illegible]	[illegible]		139	[illegible]	[illegible]		1								
[illegible]	[illegible]		140	[illegible]	[illegible]			1	1			1			

225-2/63076

Ecology consultants, Inc.

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
19	026		121	A	P				2		1				1
19	[illegible]		122	A	H				1						
20	031		123	A	P					3		1		2	
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Form 9-27-72

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 82 Pine Flats Site Name & No.: North Pinyon-Juniper 3

Collection Date(s): July 1976 Veg. Type or Plant Sp.: Pinyon-Juniper

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: 9/26/76 LR Call Ref. No.: 82CPF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 608	619	625	656	661	696	692	707	706	711
			1												
			2												
			3												
			4												
22	04		5	A	C					3				1	
22	04		6	A	O					2	1			3	1
			7												
			8												
19	04		9	A	P		K-								
			10												
			11												
19	10		12	A	H		1	1	2	1	4	4	8	4	1
			13	A	O	1				1	1		1		1
			14												
			15												
			16												
			17												
			18												
21	20		19	A	P	1									
20	01		20	A	O		1			3	1		1		
			21												
			22												
			23												
			24												
			25												
02	01		26	A	O	1	1								1
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
30	003		10	A	P								1		
			1												
			2												
			3												
			4												
			5												
			6												
22	061		7	[illegible]	[illegible]	1	1			1					1
04	002		8	[illegible]	[illegible]	13	1		1	2	27	1	1		2
07	002		9	[illegible]	[illegible]		1			1					
02	001		20	[illegible]	[illegible]			1	1	2					
			1												
			2												
19	094		3	[illegible]	[illegible]		1					1			
12	003		4	[illegible]	[illegible]	1									
			5												
22	090		6	[illegible]	[illegible]	2				1					1
19	122		7	[illegible]	[illegible]					1					
			8												
16	090		9	[illegible]	[illegible]	1									
18	091		30	[illegible]	[illegible]				1	2	1				
09	041		1	[illegible]	[illegible]							1			
12	050		2	[illegible]	[illegible]			2							
			3												
20	090		4	[illegible]	[illegible]	3				3	1		1		
			5												
29	092		6	[illegible]	[illegible]		1								
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
33	090		6	[illegible]	[illegible]	1	1	1		1	2	2			4
19	090		7	[illegible]	[illegible]				1	1					
			8												
			9												
			0												

lwm 9-27-76

ecology consultants, inc.

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: July 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
35	200		1	Fr	F	34	24	30	60	20	24	103	43	18	2
35	[illegible]		2	[illegible]	[illegible]	2		1		2	7		3		
19	[illegible]		3	H	H			1							
03	[illegible]		4	H	H				1		1		1	2	
10	[illegible]		5	A	S				1						
19	[illegible]		6	Fr	H					1					
03	[illegible]		7	A	[illegible]						1				
32	211		8	H	C						1				
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Final 9-27-76

83.0.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: [illegible] Site Name & No.: [illegible] 4

Collection Date(s): [illegible] Veg. Type or Plant Sp.: [illegible]

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: 8/27/76 DB Coll Ref. No.: 830PF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number [illegible]
			1			
			2			
			3			
			4			
			5			
			6			
			7			
[illegible]			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

225-2/63076

ecology consultants, inc.

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number [illegible]
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
[illegible]	[illegible]		91	[illegible]	[illegible]	2 3 2 5 4 4 - 5 1 [illegible]
26	[illegible]		92	[illegible]	[illegible]	1
			3			
			4			
19	[illegible]		95	[illegible]	[illegible]	
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
[illegible]	[illegible]		107	[illegible]	[illegible]	10 - 7 3 11 2 - - 1 2
[illegible]	[illegible]		8	[illegible]	[illegible]	12 1 4 1
[illegible]	[illegible]		9	[illegible]	[illegible]	1 1
20	[illegible]		0	[illegible]	[illegible]	1 2 1 1
19	[illegible]		111	[illegible]	[illegible]	1 1
19	[illegible]		112	[illegible]	[illegible]	1
19	[illegible]		113	[illegible]	[illegible]	1
19	[illegible]		114	[illegible]	[illegible]	1
19	[illegible]		115	[illegible]	[illegible]	1
19	[illegible]		116	[illegible]	[illegible]	1
[illegible]	[illegible]		117	[illegible]	[illegible]	1
19	[illegible]		118	[illegible]	[illegible]	1
19	[illegible]		119	[illegible]	[illegible]	1
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Jim 9-27-[illegible]

225-2/63076

ecology consultants, inc.

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 73 Rio Blanco Site Name & No.: [illegible]

Collection Date(s): [illegible] Veg. Type or Plant Sp.: [illegible]

Sampling Means TITRAP Sorting Means HAND

Taxonomist & Date Started: [illegible] Coll Ref. No.: [illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number [illegible]
[illegible]	[illegible]	[illegible]	1	[illegible]	[illegible]	[illegible]
			2			
			3			
			4			
[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
[illegible]	[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	18	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	20	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	21	[illegible]	[illegible]	[illegible]
			22			
			23			
			24			
[illegible]	[illegible]	[illegible]	25	[illegible]	[illegible]	[illegible]
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 9-27-76

Project: [illegible] Site: [illegible] Ref. No.: 83-PF Date: [illegible] 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number [illegible] 713
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

bum 9-27-

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: JULY 197[illegible]

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Readings Class	Field Log Number										
			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			0													
			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			0													
			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			0													
			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			0													
			1													
			2													
			3													
			4													
			5													
			6													
			7													
			8													
			9													
			0													

83 C.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed brush /5

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: —

Sampling Means Herb sweep Sorting Means Hand

Taxonomist & Date Started: PBK 28 Sept 76 Coll Ref. No.: 835 HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
27	061		3	A	O	11
27	061		4	A	O	2
			5			
			6			
			7			
			8			
			9			
			10			
27	014		11	A	F	3
25	026		12	A	H	3
25	053		13	A	I	1
			14			
			15			
			16			
			17			
			18			
			19			
			20			
19	123		21	A	H	1
			22			
			23			
			24			
			25			
19	043		26	A	P	4
19	043		27	A	P	9
19	110		28	A	H	2
19	125		29	A	H	17
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hmw 9-29-76

Project: 83 Site: 5 Ref. No.: 83545 Date: Sept-76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 769
33	077		31	U	P	1
33	079		2	U	P	1
35	000		3	U	P	2
			4			
16	000		5	A	H	1
07	003		6	I	H	1
12	018		7	U	[illegible]	12
			8			
			9			
			40			
17	024		1	A	H	2
			2			
17	024		3	[illegible]	H	2
17	024		4	A	H	2
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
27	061		6	A	O	5
			7			
			8			
			9			
27	057		60	A	F	1
27	049		1	A	F	2
			2			
24	018		3	A	[illegible]	1
			4			
			5			
			6			
27	012		7	A	[illegible]	1
			8			
			9			
			70			
			1			
			2			
16	000		3	A	H	4
07	005		4	[illegible]	H	—
24	041		5	A	[illegible]	1
			6			
			7			
			8			
			9			
			80			

Project: 83 Site: 5 Ref. No.: 83511S Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 469
			81			
			2			
			3			
			4			
			5			
			6			
18	003		7	A	H	6
			8			
			9			
			90			
			1			
			2			
			3			
25	061		4	A	S	1
			5			
			6			
			7			
25	042		8	A	S	3
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
			1			
			2			
			3			
			4			
			5			
			6			
27	021		7	A	P	4
			8			
			9			
			120			
			1			
			2			
33	020		3	U	P	4
			4			
			5			
25	051		6	A	F	1
			7			
			8			
18	003		9	A	H	2
18	002		130	U	H	5

Form 9-29-76

Project: 83 Site: 5 Ref. No.: 935HS Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			131			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
19	110		1	A	H	6
25	021		2	A	F	12
25	014		3	A	F	3
25	090		4	A	U	4
			5			
			6			
			7			
			8			
			9			
			150			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Kim 9-29-76

83.C.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Upland Succ /4

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ———

Sampling Means Hand Swap Sorting Means Hand

Taxonomist & Date Started: DER 28 Sept 76 Coll Ref. No.: 83D 115

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 719									
			1												
27	061		2	A	O	1									
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
12	093		12	A	H	2									
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
33	099		30	A	P	1									

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-29-76

Project: 83 Site: 4 Ref. No.: 83D115 Date: Sept 71

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
33	020		31	A	P	1
			2			
			3			
27	052		4	A	I	1
			5			
			6			
			7			
			8			
			9			
			40			
			1			
18	002		2	A	H	3
			3			
19	014		4	A	P	1
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
27	047		5	A	F	2
			6			
			7			
18	002		8	A	H	1
			9			
			60			
			1			
			2			
19	110		3	A	H	1
24	000		4	A	H	2
24	049		5	A	F	3
27	006		6	A	F	1
27	003		7	A	F	1
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Form 9-29-76

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slp /3

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ———

Sampling Means Herb. sweep Sorting Means Hand

Taxonomist & Date Started: EEK 28 Sept 76 Coll Ref. No.: 83CHS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
27	061		3	A	O	1
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
18	003		12	A	H	2
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
04	005		27	A	H	5
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-29-76

Project: 83 Site: 3 Ref. No.: 83C11S Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
18	Cor		4	I	H	4
			5			
			6			
18	Cor		7	U	H	2
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Terms 8-29-76

ecology consultants, inc.

83.C.11.34

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood-sage /1

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ——

Sampling Means Herb sweep Sorting Means Hand

Taxonomist & Date Started: BEK 24 Sept 76 Coll Ref. No.: 83 AHS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 741
29	061		1	A	O	18
23	021		2	A	O	9
23	061		3	A	O	4
27	061		4	A	O	4
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
18	123		18	A	H	4
			19			
			20			
			21			
25	04+		22	A	U	1
25	045		23	A	U	1
25	081		24	A	F	1
			25			
			26			
17	003		27	I	H	3
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hm 9-29-76

Project: 83 Site: 1 Ref. No.: 83A HS Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
23	023		2	A	C	2
23	023		3	A	P	40
02	002		4	U	P	13
16	016		5	U	P	2
			6			
			7			
			8			
			9			
32	079		40	A	P	2
			1			
			2			
17	024		3	A	H	1
17	025		4	A	P	2
			5			
17	000		6	J	U	6
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
23	009		7	A	P	2
			8			
			9			
			60			
31	002		1	A	P	1
			2			
			3			
			4			
			5			
16	002		6	A	H	3
			7			
			8			
			9			
			70			
			1			
23	002		2	A	U	13
			3			
			4			
			5			
			6			
			7			
23	001		8	A	P	4
			9			
			80			

225-2/63076

Tom 9-29-76

Project: 83 Site: 1 Ref. No.: 83A HS Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			81			
25	071		2	A	F	1
			3			
			4			
			5			
16	000		6	U	H	20
18	018		7	U	H	19
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
18	003		6	A	H	20
			7			
			8			
			9			
19	110		100	A	H	11
19	091		1	A	M	1
19	123		2	A	H	4
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			110			
24	014		1	A	F	1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
24	049		9	A	F	1
18	002		120	I	H	3
			1			
			2			
24	049		3	A	F	1
24	014		4	A	F	1
			5			
			6			
			7			
25	031		8	A	F	1
25	033		9	A	F	2
19	043		130	A	H	1

(over) 9-29-76

225-2/62076

Project: 83 Site: 1 Ref. No.: 83A115 Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
19	043		131	A	P	4
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			150			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			160			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			170			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			180			

ecology consultants, inc.

83 C.11.3.4

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Juniper South Slp /

Collection Date(s): Sept 1976 Veg. Type or Plant Sp.: ~~Pinyon~~

Sampling Means Herb sweeps Sorting Means Hand

Taxonomist & Date Started: PEC 28 Sept 76 Coll Ref. No.: 83 B HS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 215									
27	061		1	A	O	1									
			2												
			3												
			4												
			5												
27	013		6	A	F	1									
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
18	013		18	A	H	3									
			19												
			20												
			21												
			22												
			23												
04	005		24	A	H	4									
25	000		25	A	P	1									
			26												
			27												
16	000		28	A	H	1									
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 9-29-76

Project: 83 Site: 2 Ref. No.: 83R HS Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
22	077		3	A	P	1
			4			
			5			
			6			
			7			
			8			
			9			
18	002		40	A	H	4
			1			
			2			
			3			
			4			
			5			
19	110		6	A	H	4
19	123		7	A	H	6
			8			
22	077		9	A	P	1
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
27	049		9	A	I	3
			60			
			1			
			2			
27	049		3	A	P	1
19	110		4	A	H	2
			5			
18	002		6	A	H	2
			7			
			8			
27	049		9	A	P	2
19	110		70	A	H	2
19	123		1	A	H	1
27	049		2	A	P	1
22	077		3	A	P	1
			4			
			5			
			6			
			7			
			8			
			9			
			80			

83.C.11-3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slope /3

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Juniper (Juos)

Sampling Means Aerial Sweep Sorting Means Hand

Taxonomist & Date Started: PEH 27 Sept 76 Coll Ref. No.: 83C AS Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 222									
			1												
			2												
			3												
33	077		4	A	P	1									
33	047		5	A	P	4									
33	061		6	A	P	2									
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
29	018		18	A	F	2									
			19												
			20												
			21												
			22												
27	022		23	A	F	1									
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 9-29-76

Project: 83 Site: 2 Ref. No.: 83 CAS Jun Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
29	023		2	A	F	1
			3			
			4			
29	024		5	A	P	1
			6			
			7			
			8			
			9			
			40			
33	022		1	A	P	1
			2			
			3			
			4			
			5			
			6			
20	004		7	A	P	1
18	022		8	A	H	1
23	011		9	A	F	1
11	004		50	A	F	2
19	014		1	A	P	1
19	110		2	A	H	1
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

83.C:11.36

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slope/:

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Pinyon (Pied)

Sampling Means Aerial Survey Sorting Means Hand

Taxonomist & Date Started: PJC 22 Sept 76 Coll Ref. No.: 83C AS Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 829									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
33	261		16	A	P	3									
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-29-76

Project: 83 Site: 3 Ref. No.: 83 C AS Pied Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			729
			2			
			3			
			4			
			5			
			6			
			7			
			8			
[illegible]	[illegible]		9	A	P	1
			40			
			1			
			2			
			3			
			4			
			5			
[illegible]	024		6	A	H	1
			7			
[illegible]	[illegible]		8	A	P	2
			9			
[illegible]	014		50	A	F	1
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Sum 9-29 76

225-2/63276

ecologyx consultants, inc.

830.11.36

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Juniper South Slope /2

Collection Date(s): Sept '76 Veg. Type or Plant Sp.: Juniper (Juos)

Sampling Means Aerial sweep Juos Sorting Means hand

Taxonomist & Date Started: FCK 29 Sept 76 Coll Ref. No.: 83 B AS Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 817									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
17	024		12	A	H	1									
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-29-76

Project: 83 Site: 1 Ref. No.: 83 BAS Ins Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 817
			31			
32	079		2	A	P	2
			3			
27	019		4	A	F	1
			5			
27	029		6	A	P	3
			7			
27	014		8	A	F	1
			9			
27	023		10	A	F	1
			1			
			2			
27	061		3	A	O	1
32	061		4	A	P	1
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

83:C.11.36

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope /2

Collection Date(s): Sept 1976 Veg. Type or Plant Sp.: Pinyon (Pied)

Sampling Means Aerial sweep Sorting Means Hand

Taxonomist & Date Started: KEK 28 Sept 76 Coll Ref. No.: 83 B AS Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
			3			
			4			
			5			
			6			
32	047		7	A	P	1
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
27	018		19	A	F	1
			20			
			21			
			22			
17	024		23	A	H	1
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bm 9-29-76

Project: 83 Site: 2 Ref. No.: 83 B AS Pied Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 816									
			31												
			2												
			3												
			4												
			5												
			6												
24	029		7	A	P	1									
			8												
			9												
			40												
			1												
			2												
			3												
			4												
			5												
			6												
25	001		7	A	F	1									
25	056		8	A	U	1									
			9												
			50												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Lum 9-29-76

ecology consultants, inc.

83.C.11.3.6

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Grassland-sage / 1

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Sagebrush (Artr)

Sampling Means Aerial sweep Sorting Means Hand

Taxonomist & Date Started: BEK 28 Sept 76 Coll Ref. No.: 83A AS

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 742-
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
19	084		10	A	P	1
			11			
			12			
			13			
			14			
			15			
33	079		16	A	P	9
			17			
16	000		18	U	H	2
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 9-29-76

Project: 83 Site: 1 Ref. No.: 83A AS Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			
			2			
			3			
			4			
			5			
23	049		6	A	F	33
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
19	018		2	U	H	2
			3			
			4			
18	003		5	A	H	5
			6			
			7			
17	024		8	A	H	4
			9			
			60			
			1			
24	000		2	A	F	2
			3			
			4			
			5			
			6			
			7			
27	029		8	A	P	4
29	017		9	A	F	1
27	021		70	A	P	1
			1			
35	000		2	U	P	1
			3			
			4			
19	110		5	A	H	2
			6			
			7			
			8			
			9			
			80			

Form 9-27-76

Project: 83 Site: 1 Ref. No.: 83A 1S Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			81			
			2			
			3			
25	095		4	A	U	2
			5			
			6			
			7			
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-29-76

83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood-sagebrush /

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Sagebrush (A

Sampling Means Beating Sorting Means Hand Berlese

Taxonomist & Date Started: BEK 29 Sept 76 Coll Ref. No.: 83AB

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 243
			1			
27	018		2	A	F	1
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
19	018		11	J	H	4
			12			
35	000		13	U	P	5
21	000		14	I	H	1
33	079		15	U	P	2
			16			
27	049		17	A	F	51
			18			
			19			
16	000		20	U	H	3
			21			
19	003		22	A	H	4
			23			
			24			
			25			
			26			
			27			
			28			
			29			
17	024		30	A	H	4

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No: _____ from Field Log No. _____

QA Check: [illegible] 9-29-76

Project: 83 Site: 1 Ref. No.: 83A B Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 743
			31			
			2			
17	003		3	I	H	6
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			1			
			2			
			3			
			4			
			5			
			6			
16	000		7	U	H	15
16	000		8	U	H	4
			9			
			50			
18	033		1	I	H	3
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
27	014		1	A	F	1
			2			
			3			
12	000		4	U	S	3
			5			
27	029		6	A	P	2
			7			
19	043		8	A	P	1
27	014		9	A	F	3
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

from 9-29-76

geology consultants, inc.

83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pint-Juniper South Slope /2

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Pinyon (Pied)

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: PEK 29 Sept 76 Coll Ref. No.: 83 RB Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
35	000		1	A	P	12
			2			
			3			
			4			
19	125		5	A	H	2
			6			
33	047		7	A	P	1
			8			
33	097		9	U	P	1
			10			
			11			
			12			
			13			
			14			
16	000		15	U	H	4
			16			
			17			
27	061		18	A	O	1
04	005		19	U	H	34
			20			
27	048		21	A	F	3
			22			
			23			
27	017		24	A	F	5
			25			
			26			
			27			
27	018		28	A	F	7
27	012		29	A	F	2
27	029		30	A	P	4

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 9-29-76

Page 2 of 2

Project: 83 Site: 2 Ref. No.: 83BB Pied Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 219
			31			
19	086		2	A	H	2
17	024		3	A	H	1
19	003		4	A	H	2
			5			
16	033		6	I	H	10
33	000		7	U	P	4
			8			
			9			
16	000		40	U	H	1
			1			
07	022		2	A	F	1
			3			
			4			
			5			
			6			
			7			
27	061		8	A	O	2
			9			
			50			
27	021		1	A	F	1
			2			
			3			1
22	077		4	I	P	4
19	020		5	I	U	2
19	043		6	A	P	1
13	014		7	A	H	6
18	024		8	A	H	1
25	000		9	I	U	3
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 9-29-76

.83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Juniper (Juos)

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: PEK 29 Sept 76 Coll Ref. No.: 83 BB Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 720
			1			
			2			
			3			
35	000		4	U	P	5
			5			
			6			
			7			
			8			
			9			
			10			
			11			
18	016		12	A	H	1
			13			
			14			
			15			
04	005		16	U	H	46
			17			
			18			
19	123		19	A	H	2
			20			
19	003		21	A	H	1
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
16	000		30	U	H	1

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [signature] 9-29-76

Page 2 of 2

Project: 83 Site: B Ref. No.: 83BB Juos Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 820									
			31												
			2												
17	024		3	A	H	3									
			4												
			5												
12	033		6	I	H	1									
29	029		7	A	P	1									
			8												
			9												
27	048		40	A	F	1									
			1												
29	029		2	A	P	1									
19	084		3	A	P	4									
22	055		4	I	P	1									
			5												
			6												
			7												
			8												
			9												
			50												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

225-2/63076

Jum 9-29-76

ecology consultants, inc.

83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slope /3

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Pinyon (Pied)

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEL 27Sept 76 Coll Ref. No.: COCB Pied

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
18	033		3	E	H	2
25	000		4	U	S	25
			5			
			6			
33	020		7	A	P	3
			8			
			9			
			10			
			11			
			12			
27	010		13	A	F	1
			14			
			15			
			16			
			17			
18	018		18	U	H	9
			19			
			20			
			21			
27	017		22	A	F	1
27	029		23	A	P	2
			24			
			25			
			26			
			27			
			28			
16	000		29	U	H	5
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Jrm 9-29-76

Project: 83 Site: 3 Ref. No.: 83C B Pond Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
32	079		31	A	P	1
			32			
			33			
			34			
			35			
			36			
32	061		37	A	P	1
			38			
			39			
			40			
			41			
			42			
			43			
			44			
			45			
			46			
			47			
			48			
			49			
			50			
			51			
			52			
			53			
			54			
			55			
			56			
			57			
			58			
			59			
			60			
			61			
			62			
			63			
			64			
			65			
			66			
			67			
			68			
			69			
			70			
			71			
			72			
			73			
			74			
			75			
			76			
			77			
			78			
			79			
			80			
			81			
			82			
			83			
			84			
			85			
			86			
			87			
			88			
			89			
			90			

Kim 9-29-76

83.C.11.3.5

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /22 Site Name & No.: Pin-Junip North Slope /-

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Juniper (Juo

Sampling Means Beating Sorting Means Berlese

Taxonomist & Date Started: BEK 29Sept 76 Coll Ref. No.: 83CB Juos

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			
			2			
35	000		3	U	S	6
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
12	000		20	U	S	1
			21			
			22			
			23			
			24			
			25			
			26			
			27			
2	18		28	A	F	1
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-29-76

Project: 83 Site: 3 Ref. No.: 83 C B Juos Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 824									
			31												
			2												
			3												
			4												
			5												
			6												
16	000		7	U	II	4									
24	031		8	I	II	1									
			9												
			40												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Jcm 9-29-76

83 C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /82 Site Name & No.: Upland Sagebrush /4

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Sagebrush (Ark)

Sampling Means Trap DVac Sorting Means Hand

Taxonomist & Date Started: HEK 30 Sept 76 Coll Ref. No.: 23 D TD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight									
						Plant Size cm									
						25	28	20	20	25					
						Field Log Number									
						725	726	727	728	729	730				
27	061		1	A	O			1							
			2												
27	061		3	A	O				1						
27	061		4	A	O				1						
			5												
			6												
			7												
			8												
			9												
33	000		10	U	P			1							
			11												
			12												
			13												
			14												
			15												
			16												
24	000		17	I	H					1					
			18												
			19												
16	000		20	A	H					1					
22	099		21	A	P	1	1			1					
27	061		22	A	O				1						
			23												
35	077		24	A	P	1				5					
35	020		25	U	P				3						
17	003		26	A	H	1	1			3					
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. 730 from Field Log No. 725

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lem 9-30-76

Project: 83 Site: 4 Ref. No.: 83 DTD Date: Sept 96

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 725	726	727	728	729
			31							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			40							
			1							
			2							
			3							
			4							
35	000		5	U	P	1			1	1
			6							
			7							
			8							
			9							
			50							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
24	000		60	A	F			2		
19	005		1	A	P			1		
			2							
			3							
19	019		4	U	H	1		2	3	
16	000		5	U	H				1	
			6							
			7							
			8							
			9							
			70							
			1							
33	061		2	A	P	2				
			3							
			4							
29	029		5	A	P	1				1
			6							
			7							
			8							
			9							
24	022		80	A	F	2	1			1

Project: 83 Site: 4 Ref. No.: 83DTD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Breeding Class	Field Log Number 125	126	127	128	129
19	110		1	A	A					1
			2							
			3							
			4							
18	003		5	A	H	1	1	1	1	9
			6							
18	003		7	I	H	2	5	6	1	
27	049		8	A	F		2		4	8
22	009		9	I	P		1	1		
			90							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			100							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			110							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			120							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							

lwm 9-30-76

ecology consultants, inc.

83.C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed Brush /5

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Snowberry (Symp

Sampling Means Trap DVac Sorting Means Hand

Taxonomist & Date Started: KEK 30Sept 76 Coll Ref. No.: 835TD symph

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight Plant Size (cm) 14 14 10 12 16 36 36 25 30 41 Field Log Number 782 783 784 785 786 787					
			1								
			2								
27	061		3	A	O				1		
			4								
			5								
			6								
			7								
			8								
33	065		9	A	P				1		
33	077		10	U	P	1	1				
			11								
			12								
18	003		13	I	H	1					
			14								
			15								
			16								
27	061		17	A	O				1		
18	023		18	I	H	1			1		
			19								
			20								
			21								
			22								
			23								
			24								
			25								
			26								
			27								
			28								
			29								
			30								

DVAC Calib. Field Log No. 787 from Field Log No. 783

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 9-29-76

Project: 83 Site: 56 Ref. No.: 835TD Symph Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 782 783 784 785 786 787
			31			
			2			
			3			
19	043		4	A	P	1
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
18	003		8	I	H	2 1
			9			
27	018		60	A	F	1
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
22	079		7	A	P	1
			8			
			9			
23	031		80	I	H	1

from 9-30-

Project: 83 Site: 56 Ref. No.: 835TD Sym/4 Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 782	783	784	785	786	787
			81								
27	049		2	A	F	2	1		1		
24	000		3	A	F			1			
			4								
23	061		5	U	P			2	1		
18	016		6	A	H				1		
			7								
			8								
			9								
			90								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			100								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			110								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			120								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Mems 9-30-76

geology consultants, inc.

83.C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /73 Site Name & No.: Greasewood-Sagebrush /

Collection Date(s): Sept 1976 Veg. Type or Plant Sp.: Rabbitbrush

Sampling Means Trap DVac Sorting Means Berlese

Taxonomist & Date Started: EEK 29 Sept 76 Coll Ref. No.: 83ATD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight									
						16	19	20	16	20					
						Plant Size cm									
						41	46	51	41	51					
						Field Log Number									
						749	750	751	752	753	757				
			1												
27	061		2	A	O			7	2	1					
			3												
			4												
			5												
			6												
			7												
19	123		8	A	H			10	16	20	2				
			9												
39	000		10	U	P	6	1								
			11												
33	020		12	U	P					1					
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
27	099		23	A	F			14	9						
			24												
18	018		25	U	H	10	32	3	5	4	12				
16	000		26	U	H	5		24	23	7					
16	000		27	U	H	52	2	46	23	8					
16	000		28	U	H	5	1	7	9	37	1				
			29												
			30												

DVAC Calib. Field Log No. 757 from Field Log No. 750

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 9-30-76

Project: 83 Site: 1 Ref. No.: 83ATD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 749	750	751	752	753
27	061		31	A	O	2				
27	061		2	A	O	2				
27	061		3	A	O	1			10	1
			4							
			5							
			6							
33	047		7	A	P		1			
33	079		8	A	P	1	1	6	8	2
			9							
			40							
			1							
			2							
			3							
			4							
27	061		5	A	O		14	13	4	16
27	029		6	A	P			1		
			7							
			8							
33	077		9	A	P				1	
			50							
			1							
			2							
			3							
19	000		4	I	U		1			
			5							
			6							
			7							
			8							
17	024		9	A	U	1				
			60							
			1							
			2							
			3							
19	024		4	A	P				1	
12	000		5	U	S		1			
			6							
			7							
			8							
			9							
			70							
			1							
			2							
			3							
			4							
19	043		5	A	P	2			2	
			6							
			7							
			8							
			9							
19	00		80	A	U					2

-Lum 9-30-76

Project: 83 Site: 1 Ref. No.: 83ATD Date: Sept 1976

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 749	750	751	752	753
			81							
			2							
25	095		3	A	U				1	
			4							
			5							
			6							
24	065		7	I	H	1		1		1
			8							
17	052		9	A	H			1		
			90							
			1							
			2							
18	003		3	I	H	1		25	5	
			4							
			5							
			6							
			7							
			8							
			9							
			100							
			1							
			2							
			3							
24	031		4	I	H					2
			5							
			6							
			7							
25	013		8	A	P	1				
17	032		9	A	H	1				
19	123		110	I	H			16	9	5
17	024		1	I	H			14	4	
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							
			1							
			2							
			3							
			4							
			5							
			6							
			7							
			8							
			9							
			0							

KMW 9-30-76
ecology consultants, inc.

83:C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope /2

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Shadscale (Atco)

Sampling Means Trap DVac Sorting Means Hand

Taxonomist & Date Started: BEL 29 Sept 76 Coll Ref. No.: 83 BTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight									
						Plant Size cm	20	20	20	25	36				
						Field Log Number	810	811	812	813	814	818			
			1												
			2												
			3												
			4												
			5												
19	053		6	I	H						9				
			7												
			8												
27	018		9	A	F			1			1				
			10												
19	003		11	I	H			1			2				
			12												
33	020		13	U	P						6	1			
			14												
			15												
			16												
			17												
			18												
27	061		19	A	O		1	4				1			
			20												
			21												
19	003		22	A	H			1			5				
			23												
19	003		24	I	H			1							
			25												
			26												
			27												
			28												
33	000		29	I	P		1				1				
			30												

DVAC Calib. Field Log No. 818 from Field Log No. 811

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: hms 9-30-76

Project: 83 Site: 2 Ref. No.: 83BTD Date: Sept 96

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 810	811	812	813	814	818
			31								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			40								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			50								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			60								
			1								
			2								
			3								
			4								
			5								
			6								
35	022		7	A	P	1	1			1	
			8								
			9								
			70								
			1								
			2								
			3								
18	018		4	U	H		1				
			5								
			6								
			7								
			8								
			9								
27	061		80	A	C	1					

brm 9-30

Project: 83 Site: 2 Ref. No.: 83BTD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 810	811	812	813	814	818
19	084		81	I	P					3	
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			90								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			100								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			110								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			120								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Arcm 9-30-

83.C.11.3.3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slope /3

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Sagebrush (Ar

Sampling Means Trap DVac Sorting Means Hand

Taxonomist & Date Started: RL 30 Sept 76 Coll Ref. No.: 83CTD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size cm / Field Log Number									
						7 / 18 / 793	16 / 41 / 794	8 / 20 / 795	12 / 30 / 796	12 / 30 / 797	798				
			1												
			2												
			3												
			4												
			5												
			6												
24	000		7	I	H	1									
			8												
			9												
19	123		10	A	A					1					
			11												
			12												
23	020		13	A	P	1	7	2	1	4	1				
			14												
			15												
			16												
			17												
			18												
			19												
33	065		20	U	P					1					
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
27	049		30	A	F		1								

DVAC Calib. Field Log No. 798 from Field Log No. 793

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: lum 9-30-76

Project: 83 Site: 3 Ref. No.: 83CTD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 793	794	795	796	797	798				
			31												
			2												
			3												
19	016		4	U	H	1	2			3					
33	079		5	A	P		1								
			6												
19	084		7	A	P					1					
			8												
33	074		9	A	P		1	1	2	1					
			40												
			1												
			2												
			3												
			4												
18	003		5	A	H		10	2	11	8					
19	033		6	I	H	6	4		1	2	1				
			7												
			8												
			9												
27	061		50	A	O		1								
			1												
19	084		2	I	P	2	1								
19	110		3	A	H			1							
			4												
			5												
			6												
19	003		7	I	H	1									
			8												
16	000		9	A	H	4	1	2	5	8					
33	000		60	U	P		1								
			1												
			2												
			3												
			4												
			5												
			6												
			7												
19	084		8	A	H		1								
24	031		9	I	H	1			1						
			70												
27	029		1	A	P				1						
19	003		2	A	H	1	3	1	2	1					
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			80												

-bum 9-30-76

Project: 83 Site: 3 Ref. No.: 83CTD Date: Sept 96

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 793 794 795 796 797 798
			81			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

83:C.11.3:3

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed brush /5a

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: Serviceberry (Amla)

Sampling Means Trap DVAC Sorting Means Hand

Taxonomist & Date Started: DER 30 Sept 76 Coll Ref. No.: 835TD Amla

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight									
						Plant Size cm	12	16	11	10	24				
							30	41	41	25	61				
						Field Log Number	776	777	778	779	780	781			
			1												
			2												
			3												
			4												
			5												
			6												
			7												
25	000		8	U	P			1							
			9												
			10												
33	079		11	U	P			1		1					
			12												
18	016		13	A	H			1	2		1				
			14												
19	123		15	A	H					1					
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. 781 from Field Log No. 777

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Sum 9-30-76

Project: 83 Site: 5 Ref. No.: 83 STD Amb Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 776 777 778 779 780 781
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
16	000		9	U	H	1 2
			60			
			1			
			2			
16	003		3	J	H	1
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
27	009		80	A	P	1

Sum 9-3

Project: 83 Site: 5 Ref. No.: 83STD Amlu Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 116	117	118	119	120	121				
33	020		91	A	P					1					
			2												
			3												
			4												
			5												
			6												
19	003		7	A	H				1						
			8												
			9												
			90												
			1												
33	061		2	U	P		1								
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			100												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			110												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Rev 9-30-76

83.C.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed Brush /5

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means —

Taxonomist & Date Started: ZEK 7 Oct 76 Coll Ref. No.: 835 M

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 837
			1			
24	000		2	A	F	20
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
18	002		12	A	H	16
			13			
25	014		14	A	F	20
25	014		15	A	F	56
25	023		16	A	U	36
25	020		17	A	F	164
			18			
			19			
			20			
			21			
			22			
			23			
			24			
25	042		25	A	S	4
25	031		26	A	F	4
			27			
			28			
			29			
25	095		30	A	U	8

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

recorded total = total for ¼ subsample x 4

QA Check: [illegible] 10-11-76

Project: 83 Site: 5 Ref. No.: 835 M Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 827
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
			2			
			3			
27	015		4	A	F	4
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
27	014		3	A	F	4
			4			
			5			
			6			
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
25	102		80	A	F	4

brow 15-11-76

Project: 83 Site: 5 Ref. No.: 835M Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			81			437
			2			
			3			
			4			
			5			
			6			
25	061		7	A	S	4
			8			
			9			
			90			
19	108		1	A	F	4
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
25	103		9	A	F	24
			110			
25	081		1	A	F	8
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			120			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			130			

Project: 83 Site: 5 Ref. No.: 835M Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 837
			131			
			2			
			3			
			4			
			5			
			6			
25	021		7	A	F	12
			8			
27	048		9	A	F	8
			140			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

Form 10-11-76

geology consultants, inc.

83.C.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Upland Sage /4

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means —

Taxonomist & Date Started: BEK 6 Oct 76 Coll Ref. No.: 83 D M

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number
			1			849
25	103		2	A	F	2
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
24	060		15	A	F	16
			16			
			17			
			18			
25	020		19	A	F	5
			20			
25	023		21	A	U	5
			22			
			23			
			24			
			25			
19	094		26	A	P	3
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bsm 10-8-76

Project: 83 Site: 4 Ref. No.: 83DM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			31			849
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			40			
			1			
16	003		2	A	H	5
17	024		3	A	H	2
			4			
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
27	014		8	A	F	3
			9			
			60			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			80			

Items 10-8-76

Project: 83 Site: 4 Ref. No.: 83DM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 299
27	061		91	A	O	2
			2			
			3			
			4			
25	103		5	A	F	1
			6			
25	103		7	A	F	3
			8			
25	095		9	A	U	14
25	095		90	A	U	4
25	095		1	A	U	86
			2			
			3			
			4			
			5			
25	064		6	A	U	1
			7			
25	081		8	A	F	1
			9			
			100			
			1			
25	042		2	A	S	1
			3			
25	081		4	A	F	2
			5			
			6			
			7			
			8			
			9			
25	101		110	A	S	1
			1			
			2			
			3			
19	108		4	A	H	15
			5			
			6			
			7			
			8			
			9			
			120			
			1			
			2			
			3			
			4			
			5			
27	022		6	A	F	1
			7			
			8			
			9			
			130			

Project: 83 Site: 4 Ref. No.: 83DM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 249								
			131											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			140											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
25	035		150	A	F	1								
25	031		1	A	F	1								
			2											
			3											
			4											
25	083		5	A	F	1								
			6											
			7											
			8											
			9											
			160											
			1											
			2											
25	017		3	A	U	1								
25	017		4	A	U	2								
27	045		5	A	U	1								
27	063		6	A	F	1								
27	014		7	A	F	7								
			8											
			9											
			170											
			1											
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			0											

Jmm 10-8-7

83 C.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip North Slope

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: —

Sampling Means Malaise Sorting Means —

Taxonomist & Date Started: BEL 6 Oct 76 Coll Ref. No.: 83 CM

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 238
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
27	015		13	A	F	8
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
24	000		23	A	F	56
			24			-
			25			
18	003		26	A	H	4
			27			
25	031		28	A	F	4
			29			
25	014		30	A	F	24

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

recorded totals represent total for 1/4 sub sample x 4

QA Check: [illegible] 10-8-76

Project: 83 Site: 3 Ref. No.: 83CM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
						838
25	020		31	A	F	16
25	023		2	A	U	44
			3			
			4			
			5			
25	081		6	A	F	8
25	064		7	A	U	4
			8			
			9			
			40			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
27	055		50	A	U	12
			1			
			2			
			3			
			4			
			5			
			6			
			7			
27	063		8	A	F	12
25	014		9	A	F	4
			60			
			1			
			2			
			3			
			4			
			5			
27	022		6	A	F	12
			7			
			8			
			9			
			70			
25	103		1	A	F	20
25	044		2	A	U	20
25	103		3	A	F	4
25	095		4	A	U	160
25	095		5	A	U	8
25	095		6	A	U	8
			7			
			8			
			9			
			80			

Bmw 10-8-76

Project: 83 Site: 3 Ref. No.: 83CM Date: Sep 176

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			81			
25	081		2	A	F	20
			3			
25	081		4	A	F	4
			5			
			6			
25	040		7	A	P	4
			8			
			9			
			90			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			100			
			1			
25	103		2	A	F	4
			3			
			4			
			5			
			6			
			7			
			8			
17	000		9	A	U	3
18	000		110	A	H	40
			1			
			2			
			3			
27	014		4	A	F	20
27	014		5	A	F	36
27	014		6	A	F	4
			7			
27	022		8	A	F	4
			9			
			120			
			1			
			2			
			3			
24	012		4	A	F	4
			5			
			6			
			7			
			8			
			9			
			130			

brm 10-8-76
ecology consultants, inc.

Project: 83 Site: 3 Ref. No.: 83CM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 838
19	110		131	A	H	1
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
27	015		8	A	F	4
			9			
			150			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			160			
			1			
			2			
			3			
			4			
			5			
			6			
25	024		7	A	U	4
			8			
			9			
			170			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

lwm 10-8-76

ecology consultants, inc.

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope /2

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ———

Sampling Means Malaise Sorting Means ———

Taxonomist & Date Started: Bell 30 Sept 76 Coll Ref. No.: 73 E M

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 236
			1			
			2			
			3			
			4			
			5			
			6			
25	103		7	A	F	12
25	103		8	A	F	16
			9			
			10			
			11			
25	095		12	A	U	248
			13			
			14			
25	086		15	A	U	4
25	031		16	A	F	24
			17			
			18			
25	095		19	A	U	48
			20			
			21			
			22			
			23			
			24			
27	015		25	A	F	4
27	015		26	A	F	4
27	029		27	A	P	4
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

total represents total from 1/4 subsample x 4

QA Check: [illegible] 10-8-76

Project: 83 Site: 2 Ref. No.: 83BM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 836
			31			
			2			
27	014		3	A	F	4
			4			
			5			
27	014		6	A	F	4
			7			
			8			
25	014		9	A	F	4
25	023		40	A	U	36
			1			
			2			
25	014		3	A	F	4
25	042		4	A	S	4
25	044		5	A	U	4
			6			
21	000		7	A	F	60
27	016		8	A	F	4
			9			
			50			
			1			
			2			
			3			
			4			
18	016		5	A	H	8
22	008		6	A	P	4
			7			
			8			
			9			
			60			
			1			
			2			
			3			
			4			
			5			
25	020		6	A	F	24
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
07	003		9	A	H	4
			80			

bcm 10-8-76

Project: 83 Site: 2 Ref. No.: 83BM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
25	035		81	A	P	4
			2			
25	038		3	A	F	8
			4			
			5			
			6			
25	021		7	A	F	7
25	031		8	A	F	4
			9			
			90			
			1			
			2			
19	108		3	A	H	4
27	014		4	A	F	7
			5			
			6			
			7			
18	003		8	A	H	28
17	000		9	A	U	8
19	043		100	A	P	12
			1			
			2			
			3			
			4			
			5			
25	081		6	A	F	4
25	081		7	A	F	4
			8			
			9			
			110			
			1			
			2			
			3			
			4			
			5			
19	000		6	A	U	4
			7			
			8			
			9			
			120			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
27	042		9	A	I	4
			130			

Project: 83 Site: 2 Ref. No.: 83BM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
27	015		131	A	F	8
			2			
			3			
			4			
27	014		5	A	F	4
			6			
			7			
			8			
27	029		9	A	P	4
			140			
			1			
			2			
25	013		3	A	P	36
			4			
25	083		5	A	F	16
25	061		6	A	S	32
			7			
			8			
			9			
			150			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			160			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			170			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

bcm 10-8-76

83.C.11.3.7

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood-sagebrush/

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ———

Sampling Means Malaise Sorting Means ———

Taxonomist & Date Started: EEK 30 Sept 76 Coll Ref. No.: 83AM

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 835
25	045		1	A	F	4
			2			
25	101		3	A	S	7
			4			
			5			
25	042		6	A	S	4
25	044		7	A	U	20
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
25	081		25	A	F	8
			26			
			27			
			28			
			29			
27	015		30	A	F	4

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

1/4 ss. total x 4 - recorded tot 1 QA Check: [illegible] 10-8-76

Project: 83 Site: 1 Ref. No.: 83AM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 835
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
25	023		9	A	U	20
			40			
			1			
			2			
25	013		3	A	P	8
25	019		4	A	F	4
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
24	000		1	A	F	30
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
27	015		6	A	F	16
			7			
			8			
			9			
			80			

Land 10-9-76

ecology consultants, inc.

Project: 83 Site: 1 Ref. No.: 83AM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 835
			31			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
25	023		9	A	U	20
			40			
			1			
			2			
25	013		3	A	P	8
25	019		4	A	F	4
			5			
			6			
			7			
			8			
			9			
			50			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			60			
24	000		1	A	F	30
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			70			
			1			
			2			
			3			
			4			
			5			
27	015		6	A	F	16
			7			
			8			
			9			
			80			

Lum 10-9-76

Project: 83 Site: 1 Ref. No.: 83AM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 835
			01			
			02			
			03			
			04			
			05			
			06			
			07			
			08			
			09			
			090			
			091			
22	008		092	A	P	4
			093			
			094			
			095			
			096			
			097			
			098			
			099			
			100			
			101			
			102			
25	017		103	A	U	4
25	095		104	A	U	96
			105			
			106			
			107			
			108			
			109			
			110			
			111			
12	000		112	A	S	12
			113			
			114			
			115			
			116			
			117			
			118			
			119			
18	003		120	A	H	44
			121			
			122			
			123			
			124			
			125			
			126			
			127			
			128			
			129			
			130			

25-2163026

10-8-76

Project: 83 Site: 1 Ref. No.: 83AM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			131			835
27	014		2	A	F	4
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			140			
			1			
27	048		2	A	F	4
			3			
25	038		4	A	F	8
			5			
			6			
			7			
			8			
			9			
			150			
			1			
25	035		2	A	P	4
			3			
			4			
25	038		5	A	F	4
			6			
			7			
			8			
			9			
25	081		160	A	F	4
25	083		1	A	F	4
			2			
			3			
19	108		4	A	H	12
			5			
			6			
27	061		7	A	O	24
			8			
			9			
			170			
27	015		1	A	F	4
			2			
27	014		3	A	F	4
			4			
27	014		5	A	F	4
			6			
			7			
			8			
			9			
			180			

- bms 10-8-76

Project: 83 Site: 1 Ref. No.: 83AM Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number
			181			
			2			
19	000		3	A	U	16
			4			
			5			
			6			
			7			
			8			
			9			
			190			
			1			
			2			
25	101		3	A	S	4
			4			
			5			
			6			
			7			
			8			
			9			
			200			
			1			
			2			
			3			
			4			
25	050		5	A	U	4
19	043		6	A	P	20
			7			
			8			
			9			
			210			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			220			
			1			
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			0			

bwm 10-8-76

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Mixed bruch 15

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ——

Sampling Means Miller DVac Sorting Means Berlese

Taxonomist & Date Started: Bell 13 Sept 76 Coll Ref. No.: 835 LD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight gms 290 348 202 196 226 Plant Size Field Log Number 770 771 772 773 774 775										
			1													
29	000		2	U	P				3	2						
			3													
27	061		4	A	O	1			4							
			5													
			6													
			7													
27	061		8	A	O		2		2							
			9													
18	000		10	I	H	4	4			6						
			11													
			12													
			13													
17	000		14	A	U					6						
			15													
			16													
			17													
			18													
19	026		19	A	P	2	2									
			20													
			21													
			22													
19	000	1° clevidae	23	I	U		7	12	6							
			24													
33	065		25	U	P	2		5	2	1	1					
24	020		26	I	H		1									
			27													
19	123		28	A	H	1	2			2						
12	000		29	U	S	2	3									
			30													

DVAC Calib. Field Log No. ____ from Field Log No. ____

Berlese Calib. Field Log No. 775 from Field Log No. 772

QA Check: [illegible] 10-14-76

Project: 83 Site: 5 Ref. No.: 835LD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 770	771	772	773	774	775
			31								
			2								
			3								
			4								
27	061		5	A	O		3				
			6								
27	000		7	A	U	2		11	1		
			8								
			9								
16	000		40	U	H				4	4	
			1								
33	000		2	U	P		2		2		
33	079		3	A	P	1		1	6		
			4								
25	031		5	J	P			1		1	
33	020		6	U	P			1			
			7								
			8								
			9								
			50								
04	003		1	U	S	1	2		2		
04	004		2	U	S		4		18		
			3								
19	026		4	A	P		1				
			5								
25	000		6	A	U					2	
			7								
27	046		8	A	F	3	3				
			9								
			60								
25	000		1	U	S	88	71	62	35	15	
35	000		2	U	P			1	1		
35	000		3	U	P		8	1	1	1	
24	000		4	J	H	1		1	1	1	
			5								
			6								
			7								
04	005		8	U	H	1					
27	017		9	A	U			1			
27	029		70	A	U			1	1		
33	061		1	U	P		1	2			
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Sum 10-14-76

ecology consultants, inc.

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Upland sage /4

Collection Date(s): Sept 76 Veg. Type or Plant Sp.:

Sampling Means Litter DVac Sorting Means Berlese

Taxonomist & Date Started: BEK 13 Oct 76 Coll Ref. No.: 83 DLD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 122 91 102 140 194 Plant Size B.C. Field Log Number 720	721	722	723	724	754
27	061		1	A	O	11		2		1	
			2								
27	061		3	A	O	2					
			4								
			5								
19	005		6	A	P		1		1		
19	026		7	A	P		1				
17	000		8	A	U	1				9	
27	052		9	A	F		1				
50	000		10	U	P	1					
18	000		11	U	H	12	14	17	3	2	
			12								
			13								
			14								
			15								
27	061		16	A	O						1
			17								
			18								
			19								
			20								
			21								
33	079		22	A	P				1		
24	020		23	I	H	1		2		1	
24	000		24	I	H		2				
33	077		25	U	P		1				
33	000		26	U	P		6		1	2	1
			27								
			28								
			29								
			30								

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 754 from Field Log No. 723

QA Check: [illegible] 10-14-76

Project: 83 Site: 4 Ref. No.: 83D LD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number B.C. 720	721	722	723	724	759
			31								
			2								
19	110		3	A	H					1	
			4								
25	000		5	A	U		1	1		1	
			6								
19	113		7	J	H	2					
32	065		8	U	P	2				1	
			9								
			40								
04	003		1	U	S					1	
			2								
27	000		3	A	U		4		1		
04	004		4	U	S					1	
			5								
27	000		6	A	F	1					
29	000		7	U	P					2	
			8								
			9								
			50								
25	000		1	U	P	6	2	6	2	5	
35	000		2	U	S	139	40	20	3	49	
35	000		3	U	P	3	2	1		2	
			4								
24	018		5	I	H	3	11				
19	123		6	A	H		8	3		1	
			7								
			8								
			9								
			60								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			70								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

bmw 10-15-76

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip 13

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: —

Sampling Means Litter DVac Sorting Means Berlese

Taxonomist & Date Started: BEK 12 Oct 76 Coll Ref. No.: 83CLD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 944 1144 879 998 1169 Plant Size Field Log Number 731	732	733	734	735	755
			1								
27	061		2	A	O	1	77	2			
			3								
19	026		4	A	P	1	3				
			5								
			6								
19	005		7	I	P					1	
33	050		8	U	P	1	5	4			
			9								
			10								
			11								
			12								
12	000		13	U	S	6	3	22	4		
			14								
			15								
			16								
04	003		17	U	S		5	3	27		
			18								
29	000		19	U	P	1	3	5	4	1	
25	020		20	A	F	1					
			21								
			22								
			23								
			24								
			25								
			26								
			27								
33	065		28	U	P				1		
			29								
19	000		30	I	U	1	1	2	3		

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 755 from Field Log No. 734

QA Check: Lum 10-14-76

Project: 83 Site: 3 Ref. No.: 83 C LD Date: Sept 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 731	732	733	734	735	755
			31								
			2								
			3								
			4								
			5								
16	000		6	U	H					4	
			7								
			8								
35	000		9	U	S	21	10	3	11		1
35	000		40	U	P	1	2	17	3	4	
			1								
			2								
04	004		3	U	S	5	3				
			4								
			5								
			6								
			7								
			8								
			9								
			50								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

bcm 10-14-76

83 c. 11.3.2

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Pin-Junip South Slope

Collection Date(s): Sept 76 Veg. Type or Plant Sp.:

Sampling Means LITTER DVAC Sorting Means Berlese

Taxonomist & Date Started: KER 12Oct76 Coll Ref. No.: 83BLD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 364 640 902 1368 428 Plant Size Field Log Number 758 459 760 761 762 768									
27	061		1	A	O	1	1								
			2												
			3												
			4												
29	000		5	U	P			5							
12	000		6	U	S			21							
			7												
19	026		8	A	P					4					
			9												
			10												
			11												
25	020		12	A	F		2		2						
			13												
			14												
16	000		15	U	H		2								
19	005		16	I	P		2	4	2						
			17												
33	079		18	U	P			1							
			19												
35	000		20	I	P	3	2	13	1	6					
			21												
04	003		22	U	S			4							
			23												
			24												
			25												
			26												
04	003		27	U	S					1011					
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 768 from Field Log No. 459

QA Check: [illegible] 10-14-76

Project: 83 Site: B Ref. No.: 83BLD Date: Sept 96

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 758	759	760	761	762	768
			31								
			2								
19	000		3	I	U			1	6		
32	000		4	U	S	2	2	4	9	112	
35	000		5	U	P	5	6	7		26	
35	000		6	U	P	2	1			10	
			7								
			8								
			9								
			40								
			1								
			2								
19	125		3	A	H	6					
32	077		4	U	P		2			2	
33	005		5	U	P		2				
04	004		6	U	S			28		33	
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								
			1								
			2								
			3								
			4								
			5								
			6								
			7								
			8								
			9								
			0								

Form 10-14-76

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: Rio Blanco /83 Site Name & No.: Greasewood-sage / 1

Collection Date(s): Sept 76 Veg. Type or Plant Sp.: ———

Sampling Means Litter DVac Sorting Means Berlese

Taxonomist & Date Started: BSK 4 Sept 76 Coll Ref. No.: 83ALD

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight grams 216 266 188 127 288 Plant Size Field Log Number 744 745 746 747 749 756									
			1												
			2												
			3												
16	000		4	U	H	3	2	3	6	15					
19	110		5	A	H		4								
18	000		6	I	H		1			4					
			7												
			8												
17	100		9	A	U	1	7	2		1					
14	005		10	A	P			1							
			11												
19	026		12	A	P		1	2		1					
			13												
			14												
			15												
33	065		16	A	P			2		1					
			17												
24	020		18	I	H		1			1					
			19												
			20												
29	061		21	A	O	2									
			22												
			23												
12	000		24	A	S	29	23	15	32	17					
			25												
			26												
19	123		27	A	H						2				
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. 756 from Field Log No. 748

QA Check: [illegible] 10-14-76

Project: 83 Site: 1 Ref. No.: 83ALD Date: 8/4/76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 744 745 746 747 748 756									
03	050		31	A	S	3	4	3							
			2												
19	026		3	A	P	1	11	11	1	1					
			4												
			5												
			6												
29	061		7	A	O	1	1		1						
			8												
			9												
			40												
			1												
			2												
			3												
04	004		4	U	S	5		13							
04	004		5	U	S	9	17								
04	003		6	U	S	82	1	2	1						
49	000		7	U	P		2								
29	061		8	A	O		1		1	1					
29	000		9	A	F	4	5	2	1						
			50												
			1												
29	061		2	A	O		1								
27	061		3	A	O				1						
25	000		4	A	U		3	1	2		2				
			5												
35	000		6	U	S	19	110	126	26	14					
35	000		7	U	P	35	125	11	21	8					
35	000		8	U	P	16	0	2	—	1					
29	000		9	U	P		10	2	4						
			60												
19	005		1	A	P		1	1							
33	000		2	U	P		4	1		3					
			3												
27	048		4	A	F		1								
			5												
			6												
19	110		7	A	H		1	1	2	3					
19	000		8	I	U	1			1						
33	052		9	A	P		1								
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Form 10-14-76

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: Mile Brush 5

Collection Date(s): Sept '76 Veg. Type or Plant Sp.: —

Sampling Means Pitfall Sorting Means Hand

Taxonomist & Date Started: DB 10/15/76 Coll Ref. No.: 83 5 PF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number									
						225	264	291	803	807	811	833	842	446	2
29	641		1	A	O	1		2	4	1		1			
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
			17												
20	641		18	A	O				8	1	4	1		3	3
19	000		19	A	A	1	3	2			4			1	
			20												
19	125		21	A	H		1								
			22												
			23												
			24												
2	641		25	A	O		1	1							
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: Lum 10-18-76

Project: Rio Puerco Site: Mixed Pinon 5 Ref. No.: R85PF Date: Sept. '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 231	76	911	903	838	824	920	902	911	85
			31												
			2												
			3												
			4												
22	061		35	A	O		1	1	1		1				
			6												
			7												
			8												
			9												
			40												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			50												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			60												
			1												
			2												
			3												
			4												
			5												
			6												
03	000		67	A	5	9	2	2	2		1		4	5	4
			8												
02	000		69	A	H		1								
10	000		70	4	4						1			1	
			1												
04	000		72	4	5			2	7	5	1	12	1	17	3
			3												
2	000		74	A	11						1		7		2
			5												
			6												
34	000		77	A	5										1
			8												
			9												
			80												

Irene 10-13-

Page 2 of 2

Project: 72 Pine Barrens Site: Mixed Brush - Ref. No.: 835PF Date: Sept. '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
18	000		81	U	H		2		3	2		2	2	1	3
29	100		82	A	P					1		2			1
20	000		83	A	U			2							
			4												
16	000		85	A	H							1		2	
19	108		86	A	H								1		
			7												
			8												
33	000		89	H	P	3	5	11		4	2	6	6	2	3
			90												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
35	000		100	U	P	1	7		15	3	3	7	7	10	1
35	000		101	U	U	4	2	1	4	4	4	13	2	11	12
20	000		102	H	H								2		
19	041		103	A	U	1	1		2						1
			4												
35	000		105	U	U	1							1		1
19	041		106	A	U	1									
19	041		107	A	U		1					1			
19	0		108	A	P		1								
19	1		109	C	H					1					
19	113		110	A	H									1	
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

Form 10-18

225-2/63076

ecology consultants, inc.

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: Upland Sage 960

Collection Date(s): Sept. '76 Veg. Type or Plant Sp.: —

Sampling Means Pitfall Sorting Means Hand

Taxonomist & Date Started: DE 10/15/76 Coll Ref. No.: 83DEF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 763	763	764	800	805	821	831	839	848	85
			1												
			2												
			3												
			4												
			5												
			6												
			7												
27	061		8	A	0	7	7	1	1	1	2			1	
27	061		9	A	0				3			1			
27	061		10	A	0			1				1			
27	061		11	A	0		2	2	6		2			4	
27	061		12	A	0			1	3		1	1			
			13												
			14												
			15												
			16												
			17												
			18												
			19												
			20												
29	061		21	A	0		1	1	1					1	
			22												
27	061		23	A	0	6	2					1	1		
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 10-18-76

Project: 83 Rio Rinco Site: UPLAND SAGE 4(0) Ref. No.: 830 PF Date: SEPT '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 136	243	727	800	811	821	830	837	848	856
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
27	000		39	A	U			2		1					
			40												
			41												
			42												
			43												
			44												
			45												
			46												
			47												
			48												
			49												
			50												
			51												
			52												
			53												
			54												
			55												
			56												
30	000		57	A	P		1	1			1				
			58												
			59												
			60												
			61												
04	000		62	U	S		1		1	2	2	2		1	
			63												
01	000		64	A	A		2	1		1	2	1	2	1	1
24	000		65	U	U		2								2
			66												
			67												
			68												
18	000		69	U	A	6	5	2	3	3	6	10	2	3	6
			70												
			71												
29	061		72	A	O								1		
			73												
			74												
3C	000		75	A	U	1		3	0	1	4	16	32	11	1
			76												
			77												
			78												
			79												
			80												

Lmw 10-18-76

Project: 83 Rio Blanco Site: UPLAND SAGE 4(0) Ref. No.: 820PF Date: SEPT. 76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 820	262	777	800	805	821	830	837	848	85
			1												
			2												
			3												
19	109		84	L	H								1		
			5												
			6												
			7												
			8												
			9												
			90												
32	000		91	A	P	2	1		2	1	1	1	2	2	
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			100												
			1												
			2												
			3												
			4												
			5												
			6												
35	000		107	U	P	5	6	4	8	4	2	9	3	8	1
32	000		108	U	S					1					
			9												
			0												
			1												
			2												
			3												
			4												
			5												
19	099		116	A	S		1								
			7												
			8												
			9												
07	010		120	A	P				1						
19	110		121	A	P						1				
19	110		122	A	P						1				
19	102		123	A	H						1				
			4												
			5												
			6												
			7												
			8												
			9												
			0												

225-2/63076

Ecology Consultants, Inc. 10-18-76

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 Rio Blanco Site Name & No.: North Piceance-Stations 2C

Collection Date(s): SEPT '76 Veg. Type or Plant Sp.: —

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: OB 10/14/76 Coll Ref. No.: 83C PF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 740 767 794 804 809 825 834 843 849
			1			
			2			
			3			
			4			
22	061		5	A	O	1
22	061		6	A	O	1 1
			7			
			8			
19	042		9	A	O	2 1
			10			
			11			
			12			
22	061		13	A	O	2
			14			
			15			
			16			
			17			
			18			
			19			
22	061		20	A	O	1 1 1
			21			
			22			
			23			
			24			
			25			
22	061		26	A	O	1 2 1
			27			
			28			
			29			
			30			

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: bmw 10-18-76

Project: [illegible] Site: [illegible] Ref. No.: 83C PF Date: SEPT '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 780	784	788	804	[illegible]	812	824	842	849	87
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												
			41												
			42												
			43												
			44												
			45												
			46												
20	331		47	A	O	1			1				3		
04	000		48	U	H	17	1	1	9	3	12	11	5	2	
01	000		49	U	H		1	2							
			50												
24	000		51	U	U				2						
			52												
			53												
12	000		54	U	S		2		1					1	
			55												
27	000		56	A	U				1	1		2			
			57												
			58												
			59												
19	000		60	U	H		1	1	3						1
			61												
			62												
			63												
25	000		64	A	U	1	1	3	2	1	5	3	3		1
			65												
			66												
			67												
			68												
			69												
			70												
			71												
19	102		72	A	H						1				
30	000		73	A	P				1						
19	102		74	A	H								1		
			75												
32	000		76	A	O	1		1		2	1		1	1	
			77												
			78												
			79												
			80												

Form 10-13-76

225-2/62076 ecology consultants, inc.

Project: T2 Rio Blanco Site: NORTH P.J 3(C) Ref. No.: 83CPF Date: SEPT '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 740	769	222	824	409	825	834	545	542	65
35	600		81	U	P	22	19	10	14	37	26	32	19	22	2
27	900		82	4	5	2				3	1	13	4	13	3
19	1300		83	A	H			1							
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												

bmw 10-18-76
ecology consultants, inc.

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 RIO BLANCO Site Name & No.: SOUTH PINYON-JUNIPER

Collection Date(s): SEPT. '76 Veg. Type or Plant Sp.: —

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: JE 10/14/76 Coll Ref. No.: CPCPF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
20	201		13	A	O										
20	201		14	A	O	1	3	1	1			6			
			15												
			16												
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [illegible] 10-18-76

Project: [illegible] Site: [illegible] Ref. No.: [illegible] Date: SEPT. '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			31												
			2												
22	[illegible]		33	A	O	1	2		1	1			2	1	
			4												
			5												
			6												
			7												
			8												
			9												
			40												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			50												
			1												
			2												
32	[illegible]		53	A	O							2			
			4												
			5												
			6												
			7												
			8												
			9												
			60												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
30	[illegible]		69	A	P		1		1	1			1	1	1
			70												
			1												
			2												
			3												
			4												
			5												
22	[illegible]		76	U	U			1	1		1		1		
			7												
18	[illegible]		78	U	B		1		2			7	4	2	2
			9												
32	[illegible]		80	A	U				1	2		10	3	3	3

Jum 10-18-76

Project: 83 Rio Blanco Site: S. Fork-Trib #6 Ref. No.: 83 B PF Date: SEPT. '84

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
10	000		81	U	U		1	1							
04	00		82	U	C	2			1	2	7	16	7	1	
02	00		83	P	S	2	1		1				1		1
			4												
			5												
23	000		86	A	P		1								
			7												
			8												
			9												
			90												
19	00		91	A	H	1	1	1	2		1	1		1	
			2												
			3												
19	00		94	A	H								1	1	
			5												
			6												
			7												
			8												
			9												
			00												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
22	00		11 1	A	U										
			2												
			3												
			4												
			5												
			6												
			7												
3	00		118	U	C	9	17	2	4	4	4	6	5	6	1
32	00		119	U	C	1	3	2			4	3	4	3	
			0												
10	00		121	I	U				1	1			1		
20	01		122	U	C					1				1	
2	0		123	U	C					2		4		1	
			4												
14	0		125	O	U	1							1		
14	00		126	U	P	1									
20	00		127	U	P						1				
44	00		128	U	P/S		1				1				
17	0		129		P										1
			0												

225-2/63076

bmw 10-18-84

Ecology Consultants, Inc.

83.C.11.3.1

LAB DATA ANALYSIS - TERRESTRIAL INVERTEBRATES

Project Name & No.: 83 RIO BLANCO Site Name & No.: GREASEWOOD 1 (A)

Collection Date(s): SEPT. '76 Veg. Type or Plant Sp.: —

Sampling Means PITFALL Sorting Means HAND

Taxonomist & Date Started: DB 10/12/76 Coll Ref. No.: 83APF

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Litter Dry Weight / Plant Size / Field Log Number 726	762	767	771	806	822	831	840	844	851
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
			16												
22	061		17	F	0	7	6	3	2		2	1		2	6
			18												
			19												
			20												
			21												
			22												
			23												
			24												
			25												
			26												
			27												
			28												
			29												
			30												

DVAC Calib. Field Log No. _____ from Field Log No. _____

Berlese Calib. Field Log No. _____ from Field Log No. _____

QA Check: [signature] 10-18-76

Project: [illegible] Site: [illegible] Ref. No.: 83 A PF Date: SEPT '76

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 727	762	769	801	816	822	831	840	849	8[illegible]
			31												
			32												
			33												
			34												
			35												
			36												
			37												
			38												
			39												
			40												
20	001		41	A	P	2	4			1	1			1	
19	005		42	A	P						1				
			43												
			44												
			45												
			46												
			47												
			48												
			49												
			50												
			51												
			52												
			53												
			54												
			55												
			56												
			57												
			58												
			59												
			60												
			61												
			62												
			63												
			64												
			65												
			66												
			67												
			68												
			69												
			70												
06	000		71	A	L	9	17	3	5		1	2	5	5	6
			72												
04	000		73	A	4	5				2	1	5	1	4	3
19	000		74	1	L	9	3	2	4	2	3	5	5	3	3
04	000		75	A	L	1	5	4	4			2	4	2	1
14	000		76	A	H						2	2			
17	000		77	A	H	1									
19	005		78	A	P							1		1	
20	001		79	A	P	4	1		1		2	1		1	
12	000		80	A	L	4	2			1		2		11	2

225-2/63076

ecology consultants, inc.

Project: Rio Blanco Site: GREASEWOOD 1(A) Ref. No.: 83APF Date: SEPT. 26

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number 932	26-084	701	706	712	731	744	75
			1										
20	000		82	A	U	2		1		5	6		2
			3										
			4										
			5										
			6										
19	049		87	A	S					1			
			8										
			9										
			90										
			1										
			2										
19	081		93	A	M			1		1		1	
24	000		94	U	U	2	1		1	1		1	1
			5										
			6										
			7										
19	043		98	A	P			1					
			9										
20	061		100	A	O								1
			1										
20	081		102	A	O			1			1		
			3										
			4										
			5										
			6										
			7										
			8										
			9										
			110										
			1										
			2										
			3										
			4										
			5										
			6										
			7										
			8										
			9										
			120										
			1										
			2										
22	[illegible]		123	U	H			1					
[illegible]	[illegible]		124	U	S	14	4	1	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	106		125	U	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		126	I	S	11	[illegible]	10	[illegible]	[illegible]	14	[illegible]	[illegible]	[illegible]	[illegible]
			7										
			8										
			9										
[illegible]	[illegible]		130	[illegible]	[illegible]	1						1			

225-2/63076

ecology consultants, inc.

Form 10-18-76

Project: 83 Rio Blanco Site: GREENWOOD 1(A) Ref. No.: 83APF Date: SEPT 06

Order Number	Family Number	Species Number	Coll. Ref. Number	Age Class	Feeding Class	Field Log Number									
			1												
19	[illegible]		132	F	[illegible]								1		
27	[illegible]		133	A	[illegible]						3	1			
28	[illegible]		134	A	[illegible]	5	3	5	4	2	1	2	—	1	2
30	[illegible]		135	[illegible]	[illegible]		2								
19	[illegible]		136	A	[illegible]		1								
29	[illegible]		137	[illegible]	[illegible]					1					
19	110		138	F	[illegible]									1	1
19	[illegible]		139	F	[illegible]							1			
27	[illegible]		140	A	F							1			
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			0												
			1												

Form 10-18-76

2.4 AQUATIC STUDIES

QUARTERLY REPORT
JULY - SEPTEMBER 1976

RIO BLANCO OIL SHALE PROJECT

SUBMITTED TO
RIO BLANCO OIL SHALE
DENVER, COLORADO

SUBMITTED BY
ECOLOGICAL SCIENCES DIVISION
NUS CORPORATION
PITTSBURGH, PENNSYLVANIA
HOUSTON, TEXAS
AND
DENVER, COLORADO

JANUARY, 1977

PREPARED BY: Thomas M Ivory
Thomas M. Ivory
Project Manager

APPROVED BY: Thomas M Ivory for
Paul V. Morgan
Vice President and
General Manager
Ecological Sciences Division

TABLE OF CONTENTS

		PAGE
Table of Contents		i
List of Tables		ii
List of Figures		iii
List of Appendices		iv
Preface		vii
2.4.0	Introduction	2.4-1
	2.4.0.1 Program Objectives	2.4-1
	2.4.0.2 Sampling Locations	2.4-1
	2.4.0.3 Schedule	2.4-1
	2.4.0.4 Report Motif	2.4-4
2.4.1	Physical Measurements and Water Chemistry	2.4-5
2.4.2	Phytoplankton	2.4-7
2.4.3	Zooplankton	2.4-9
2.4.4	Periphyton	2.4-11
2.4.5	Benthos	2.4-13
2.4.6	Sediment Chemistry	2.4-15
2.4.7	Macrophytes	2.4-17
2.4.8	Fish	2.4-19
2.4.9	Springs and Seepages	2.4-21
2.4.10	Hydrology	2.4-24
Literature Cited		2.4-26

LIST OF TABLES

TABLE		PAGE
2.4-1	Schedule for RBOSP Aquatic Baseline Data Accumulation Program	2.4-3

LIST OF FIGURES

FIGURE		PAGE
2.4-1	RBOSP Aquatic Sampling Locations	2.4-2
2.4-2	Springs and Seepage Locations	2.4-22

LIST OF APPENDICES

APPENDIX		PAGE
H-1-1	Dates of Sampling for RBOSP Aquatic Baseline Studies July - August 1976.	2.4.1.305
H-1-2	Dates of Sampling for RBOSP Aquatic Baseline Studies August - September 1976.	2.4.1.306
H-2-1	Physical and Chemical Characteristics of Streams RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.1.307
H-3-1	Water Chemistry Data, RBOSP Aquatic Baseline Studies August - September 1976.	2.4.1.311
H-4-1	Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.2.1020
H-5-1	Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.2.1099
H-5-2	Densities of Algal Taxa Observed in the Phytoplankton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.2.1104
H-6-1	Zooplankton Taxa Observed during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.3.388
H-6-2	Densities of Zooplankton Observed during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.3.392
H-7-1	Zooplankton Taxa Observed during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.3.441
H-7-2	Densities of Zooplankton Observed during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.3.445
H-8-1	Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1043
H-8-2	Densities of Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1047
H-8-3	Dry and Organic Weight of Periphyton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1099
H-8-4	Chlorophyll a of Periphyton during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1101

LIST OF APPENDICES (Continued)

APPENDIX		PAGE
H-8-5	Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1102
H-8-6	Densities of Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1104
H-8-7	Dry and Organic Weight of Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1110
H-8-8	Chlorophyll a of Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.4.1111
H-9-1	Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1112
H-9-2	Densities of Algal Taxa Observed in the Periphyton during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1117
H-9-3	Dry and Organic Weight of Periphyton during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1176
H-9-4	Chlorophyll a of Periphyton during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1178
H-9-5	Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1179
H-9-6	Densities of Algal Taxa Observed in the Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1181
H-9-7	Dry and Organic Weight of Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1189
H-9-8	Chlorophyll a of Periphyton from Artificial Substrates during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.4.1190
H-10-1	Macroinvertebrate Taxa Observed during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.5.1034

LIST OF APPENDICES (Continued)

APPENDIX		PAGE
H-10-2	Densities of Benthos (Macroinvertebrates) Observed during RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.5.1065
H-11-1	Macroinvertebrates Taxa Observed during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.5.1173
H-11-2	Densities of Benthos (Macroinvertebrates) Observed during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.5.1197
H-12-1	Results of Sediment Chemistry Analysis during RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.6.66
H-13-1	Results of Sediment Pesticides Analysis during April 1976.	2.4.6.68
H-13-2	Results of Sediment Pesticides Analysis during RBOSP Aquatic Baseline Studies, May - June 1976.	2.4.6.69
H-14-1	List of Fish Species and Numbers Captured, White River and Lower Yellow Creek, RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.8.247
H-14-2	Fish Data, White River and Yellow Creek, RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.8.248
H-14-3	Results of Food Habit Analysis for Individual Fish, RBOSP Aquatic Baseline Studies, July - August 1976.	2.4.8.254
H-15-1	List of Fish Species and Numbers Captured, White River and Lower Yellow Creek, RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.8.263
H-15-2	Fish Data, White River and Yellow Creek, RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.8.264
H-15-3	Results of Food Habit Analysis for Individual Fish, RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.8.283
H-16-1	Stream Velocity, RBOSP Aquatic Baseline Studies, August - September 1976.	2.4.10.27

PREFACE

On September 9, 1974, NUS Corporation was selected by the Rio Blanco Oil Shale Project (RBOSP) and Limnetics, Incorporated to perform the Aquatic Baseline Data Accumulation Program for Federal Oil Shale Tract C-a. On October 15, 1974, the aquatic sampling program was initiated; during March, 1975, NUS submitted the initial quarterly data report covering the period October 1974 - January 1975. In March, June, September, and December 1975 and in March, June, and September 1976, data reports for inclusion in RBOSP Progress Reports 2, 3, 4, 5, 6, 7, and 8,respectively,were submitted. This data report is being submitted for inclusion in RBOSP Progress Report 9. This report includes data from the following sampling periods: July - August 1976 and August - September 1976.

2.4 AQUATIC STUDIES

2.4.0 Introduction

2.4.0.1 Program Objectives

The Aquatic Baseline Data Accumulation Program is designed to incorporate the environmental studies described in the Federal Register, Volume 39, Number 230, Part 3, Oil Shale Lease Environmental Stipulations and in the Tract C-a Exploratory Plan of May 1974. The overall objective for the aquatic program is to characterize the existing aquatic ecological communities in the vicinity of Tract C-a. These baseline studies will inventory the aquatic habitats which may be affected by the development of oil shale on and around Tract C-a; and will allow determination of species composition, productivity, importance to man, and relative uniqueness of aquatic habitats and species. The aquatic baseline program includes the collection and analysis of field data and an on-going survey of pertinent literature. Since most of the streams on and near Tract C-a are intermittent and since most of the permanent aquatic ecosystems occur off tract, characterization of the permanent streams will be emphasized.

2.4.0.2 Sampling Locations

The sites of the various sampling stations have been chosen to represent the broadest possible range of aquatic habitats available. A total of thirty-five sampling stations has been established. Because emphasis in this aquatic program has been given to the permanent streams near Tract C-a, 18 of the stations are located on the White River and Yellow Creek (near its confluence with the White River). The locations of the aquatic sampling stations are depicted in Figure 2.4-1. The description of each of these locations is presented in detail in Section 2.4.1 of the RBOSP Progress Report 2 and will not be repeated here. For convenience and ease of discussion, the sampling stations will be treated according to their geographical locations in the following manner: stations near the headwater areas west of Tract C-a (Stations 1 - 5); stations on Tract C-a (Stations 6 - 18); stations on Yellow Creek (Stations 19 - 22); and stations on the White River (Stations 23 - 35).

2.4.0.3 Schedule

The schedule of events for the RBOSP Aquatic Baseline Data Accumulation Program is presented as Table 2.4-1. The initial sampling was begun in October 1974; and sampling continued through August 1976. At each sampling location all physical, chemical, and biological samples are obtained on the same day. Appendix H-1-1 lists the dates on which samples were collected during July - August 1976, and Appendix H-1-2 lists the collection dates for the August - September 1976 sampling. During July - August 1976,

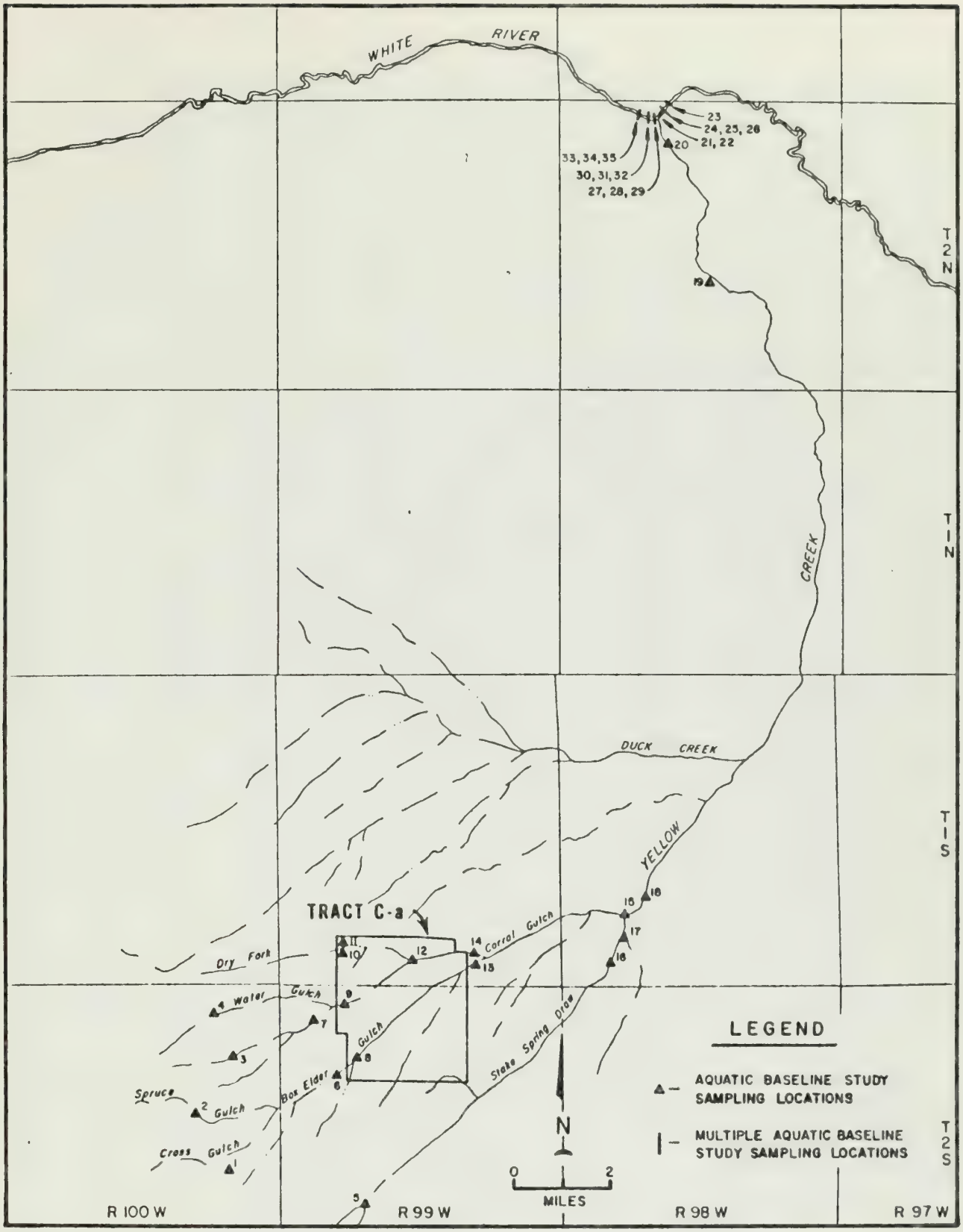

Figure 2.4-1. RBOSP Aquatic Sampling Locations

Table 2.4-1. Schedule for RBOSP Aquatic Baseline Data Accumulation Program

RIO BLANCO OIL SHALE PROJECT (GULF-STANDARD)	1975												1976											
Specification Task	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Start Date																								
Period of Performance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Start-up Time																								
Study Schedule																								
Field Studies																								
Physical	X			X	X	X	X	X	X	X	X					X		X	X	X				
Water Chemistry	X			X	X	X	X	X	X	X	X					X		X	X	X				
Plankton	X			X	X	X	X	X	X	X	X					X		X	X	X				
Periphyton	X			X	X	X	X	X	X	X	X					X		X	X	X				
Primary Prod.	X																							
Analysis					X	X	X	X	X							X		X	X	X				
Benthos				X	X	X	X	X	X	X	X					X		X	X	X				
Macrophytes	X			X	X	X	X	X	X	X	X					X		X	X	X				
Fish	X			X	X	X	X	X	X	X	X					X		X	X					
Rare and Endangered Species	X			X	X	X	X	X	X	X	X					X		X	X	X				
Spring and Seepages	X	X		X	X	X	X	X	X	X	X			X		X		X	X	X				
Miscellaneous Studies				X		X		X		X		X		X										
Lab Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Statistical Analysis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Reports																								
Monthly	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Quarterly			X			X			X			X			X			X						
Annual																								
Draft Final																							X	
Comment Period																								X
Incorp. Comments																								X
Final Report																								X
Meetings																								
Bimonthly		X		X		X		X		X		X		X		X		X		X				

and during August - September 1976, samples were collected at 27 locations (the number of sites sampled varies with the number of sites which are dry or inaccessible).

2.4.0.4 Report Motif

The presentation of results from the sampling period included in this report has been limited to a preliminary description of the data; and in the case of the physical and chemical parameters, only a limited number of selected parameters are discussed. No formal data interpretations have been attempted.

SAMPLING DATES

APPENDIX H-1-1

DATES OF SAMPLING FOR
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-7-1

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976.

Station	Date Sampled	Flow Condition
1	7-15-76	Flowing
2	7-15-76	Flowing
3	7-20-76	Flowing
4	7-19-76	Flowing
5	7-27-76	Flowing
6	7-14-76	Dry
7	7-19-76	Flowing
8	7-14-76	Flowing
9	7-19-76	Flowing
10	7-20-76	Dry
11	7-20-76	Dry
12	7-20-76	Dry
13	7-22-76	Flowing
14	7-22-76	Flowing
15	7-14-76	Dry
16	7-15-76	Dry
17	7-14-76	Dry
18	7-14-76	Dry
19	7-27-76	Flowing
20	7-23-76	Flowing
21	7-23-76	Flowing
22	7-23-76	Flowing
23	8- 4-76	Flowing
24	8- 7-76	Flowing
25	8- 7-76	Flowing
26	8- 7-76	Flowing
27	8- 2-76	Flowing
28	8- 2-76	Flowing
29	8- 2-76	Flowing
30	8- 6-76	Flowing
31	8- 6-76	Flowing
32	8- 6-76	Flowing
33	8- 3-76	Flowing
34	8- 3-76	Flowing
35	8- 3-76	Flowing

APPENDIX H-1-2

DATES OF SAMPLING FOR
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-1-2

DATES OF SAMPLING FOR RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976.

Station	Date Sampled	Flow Condition
1	9-16-76	Flowing
2	9-16-76	Flowing
3	9-15-76	Flowing
4	9-15-76	Flowing
5	9-16-76	Flowing
6	9-14-76	Dry
7	9-15-76	Flowing
8	9-14-76	Flowing
9	9-17-76	Flowing
10	9-15-76	Dry
11	9-15-76	Dry
12	9-17-76	Dry
13	8-26-76	Flowing
14	8-26-76	Flowing
15	9-14-76	Dry
16	9-16-76	Dry
17	9-14-76	Dry
18	9-14-76	Dry
19	9-15-76	Flowing
20	9-14-76	Flowing
21	9-14-76	Flowing
22	9-14-76	Flowing
23	9-03-76	Flowing
24	9-02-76	Flowing
25	9-02-76	Flowing
26	9-02-76	Flowing
27	8-31-76	Flowing
28	8-31-76	Flowing
29	8-31-76	Flowing
30	9-01-76	Flowing
31	9-01-76	Flowing
32	9-01-76	Flowing
33	8-30-76	Flowing
34	8-30-76	Flowing
35	8-30-76	Flowing

2.4.1 PHYSICAL MEASUREMENTS
WATER CHEMISTRY

2.4.1 Physical Measurements and Water Chemistry

During the August - September 1976 sampling period, Stations 6, 10 - 12, and 15 - 19 were dry.

The physical and chemical data collected during the August - Septemmber 1976 sampling are presented in Appendices H-2-1 and H-3-1. A summary of selected parameters for the Yellow Creek and White River stations is presented below.

AUGUST - SEPTEMBER 1976

Parameter	Yellow Creek	White River
Specific conductance (µmhos)	4000	900 - 3200
pH	8.5 - 8.7	8.4 - 8.5
Alkalinity, Total ($CaCO_3$mg/l)	1456 - 1694	217 - 240
Chloride (mg/l)	149 - 162	39 - 45
Sulfate (mg/l)	469 - 519	59 - 65
Dissolved solids (mg/l)	2459 - 2562	550 - 617
Turbidity (JTU)	58 - 303	4 - 21
Dissolved oxygen (mg/l)	5.7 - 7.6	9.1 - 9.9
Temperature (^{0}C)	10 - 11	16 - 21

Comparison of the physical and chemical data for the August - September 1976 sampling period with that of August - September 1975 indicates that water temperatures were generally higher in Yellow Creek in August - September 1976 than in 1975 (when the range was 6 - 14^0) while the temperatures in the White River were more variable in August - September 1976 than in the same period of 1975 (when the range was 15 - 18^{0}C). Turbidity was higher in Yellow Creek during the August - September 1976 sampling than during the comparable period in 1975 (18 - 26 JTU), probably due to the increased disturbance by cattle. Turbidity was lower in the White River in August - September 1976 than in 1975 (6 - 14 JTU). The ranges of concentration of dissolved solids were much narrower in August - September 1976 than during the same period in 1975 in both Yellow Creek (1,900 - 3,500 mg/l in 1975) and the White River (485 - 822 mg/l in 1975). Specific conductance varied less in Yellow Creek in 1976 than in 1975 (2,800 - 4,100 µmhos in 1975), whereas, the range of specific conductance observed in the White River in August - September 1976 was greater than that observed in August - September 1975 (775 - 2,500 µmhos).

2.4.1 - Physical Measurements and Water Chemistry Data

PHYSICAL AND CHEMICAL RAW DATA

APPENDIX H-2-1

PHYSICAL AND CHEMICAL
CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-2-1

PHYSICAL AND CHEMICAL CHARACTERISTICS OF STREAMS
RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.[1]

Station	Water Temperature (°C)	Conductivity[2] (μmhos/cm)			Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_3$)	pH
		s	m	s			
1	9		950		6.6	384	8.0
2	11		1000		6.6	415	7.7
3	10		1300		8.6	204	8.1
4	10		1300		7.8	450	8.0
5	8		1600		8.8	450	8.0
7	15		1200		7.8	397	8.2
8	11		1100		8.6	374	8.0
9	9		1200		8.6	378	8.2
13	15		1100		7.0	397	7.9
14	17		1200		8.5	542	8.1
19	8		2800		9.2	780	8.2
20	11		4000		7.4	1456	8.7
21	11		4000		7.6	1600	8.7
22	10		4000		5.7	1694	8.5

[1]Stations 6, 10-12, and 15-18 were dry at the time of sampling.

[2]Measurements taken at sides (s) and middle (m) of stream wherever possible

APPENDIX H-2-1 (Continued)

Station	Water Temperature (^{0}C)	Conductivity[2] (μmhos/cm)			Dissolved Oxygen (mg/l)	Alkalinity Total (mg/l as $CaCO_3$)	pH
		s	m	s			
23	16	900	900	900	9.1	227	8.4
24	18	900	900	900	9.8	220	8.5
25	18	900	900	900	9.3	220	8.5
26	18	900	900	900	9.7	219	8.5
27	20	900	900	900	9.7	217	8.4
28	21	3200	900	900	9.6	221	8.4
29	20	1000	950	900	9.6	240	8.4
30	18	900	900	900	8.4	219	8.4
31	18	900	900	900	9.5	226	8.4
32	19	900	900	900	9.9	238	8.4
33	21	900	900	900	9.6	222	8.4
34	21	900	900	900	9.6	224	8.4
35	21	900	900	900	9.5	224	8.4

APPENDIX H-2-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate[3]	Width	Depth (in.)		
						s	m	s
1	36	5-10	None	Gr,Sa,Si	2'		0.5"	
2	5	5-10	None	Gr,Sa,Si	1'4"		0.5"	
3	18	5-10	None	Gr	6"		0.5"	
4	48	5-10	None	Gr,Sa	1'3"		1.5"	
5	< 1	5-10	None	Gr,Si	1'8"		2.5"	
7	50	5-10	None	Gr,Sa	1'4"		1.0"	
8	< 1	5-10	None	Gr,Sa	2'2"		3.0"	
9	65	5-10	None	Gr,Sa	3'		2.0"	
13	12	5-10	None	Gr,Sa	3'		2.0"	
14	< 1	5-10	None	Sa	4"		2.0"	
19	6	25-35	None	Gr,Sa,Si	1'		8.0"	
20	58	5-10	None	Gr	6'		3.0"	
21	176	25-35	None	Gr,Sa,Si	1'		5.0"	
22	303	25-35	None	Gr,Si	5'		3.0"	

[3]Co = Cobble
Gr = Gravel
Sa = Sand
Si = Silt

APPENDIX H-2-1 (Continued)

Station	Turbidity (JTU)	Color (APHA Units)	Odor	Substrate	Width	Depth (in.)		
						s	m	s
23	9	5-10	None	Co	31'10"	8";	14";	4"
24	14	5-10	None	Co,Gr,Si	144'	8";	6";	1"
25	12	5-10	None	Co,Gr	144'	18";	22";	12"
26	11	5-10	None	Co,Gr	144'	4";	8";	16"
27	4	5-10	None	Co,Gr	46'5"	16";	16";	1"
28	21	5-10	None	Co,Gr,Si	61'	2";	10";	1"
29	20	5-10	None	Co	29'5"	8";	8";	3"
30	20	5-10	None	Co	152'	16";	18";	4"
31	20	5-10	None	Co	152'	8";	10";	14"
32	20	5-10	None	Co	152'	8";	8";	10"
33	13	5-10	None	Co,Gr	48"	16";	10";	3"
34	15	5-10	None	Co,Gr	18'	14";	8";	--
35	13	5-10	None	Co,Gr	53'	4";	18";	2"

APPENDIX H-3-1

WATER CHEMISTRY DATA
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTMEBER 1976

APPENDIX H-3-1

WATER CHEMISTRY DATA. RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.[1]
(Data are expressed in mg/l unless otherwise noted.)[2]

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
1-A	<0.1	96	< 1	3	4	5-10
1-B	<0.1	94	1	3	5	5-10
2-A	<0.1	88	< 1	1	5	5-10
2-B	<0.1	88	< 1	1	5	5-10
3-A	<0.1	92	< 1	1	10	5-10
3-B	<0.1	92	1	3	10	5-10
4-A	<0.1	110	< 1	4	7	5-10
4-B	<0.1	110	< 1	4	7	5-10
5-A	<0.1	96	< 1	2	12	5-10
5-B	<0.1	94	2	4	12	5-10
7-A	<0.1	84	7	6	8	5-10
7-B	<0.1	86	< 1	3	8	5-10
8-A	<0.1	84	1	1	10	5-10
8-B	<0.1	84	1	1	10	5-10
9-A	<0.1	90	< 1	3	8	5-10
9-B	<0.1	88	< 1	3	8	5-10
13-A	<0.1	79	12	10	10	5-10
13-B	<0.1	79	20	40	10	5-10

[1]Stations 6, 10-12, and 15-18 were dry at the time of sampling.

[2]Data for color are APHA units.

APPENDIX H-3-1 (Continued)

Station Replicate	Hardness ($CaCO^2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
1-A	420	43	0.6	<0.01	1.10	None	<0.01	0.18
1-B	418	43	0.5	<0.01	0.90	None	0.01	0.16
2-A	406	45	<0.2	<0.01	0.22	None	<0.01	0.04
2-B	406	43	<0.2	<0.01	0.21	None	<0.01	0.04
3-A	477	60	<0.2	<0.01	0.36	None	<0.01	0.07
3-B	481	59	<0.2	<0.01	0.34	None	<0.01	0.07
4-A	549	64	0.9	<0.01	0.76	None	0.01	0.16
4-B	552	62	0.9	<0.01	0.76	None	0.01	0.15
5-A	596	80	<0.2	<0.01	0.21	None	<0.01	0.01
5-B	600	83	<0.2	<0.01	0.23	None	<0.01	0.01
7-A	449	60	0.5	<0.01	0.76	None	<0.01	0.01
7-B	459	60	0.7	0.01	0.82	None	<0.01	0.12
8-A	449	49	<0.2	0.02	0.32	None	0.02	0.02
8-B	449	51	0.3	<0.01	0.37	None	0.02	0.02
9-A	479	57	0.4	<0.01	0.76	None	<0.01	0.16
9-B	479	58	0.5	<0.01	0.72	None	<0.10	0.16
13-A	470	64	<0.2	<0.01	0.36	None	0.02	0.06
13-B	460	66	<0.2	<0.01	0.39	None	0.02	0.06

APPENDIX H-3-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
1-A	2.8	11.0	44	568	73	39
1-B	2.7	11.0	44	569	59	41
2-A	1.2	12.0	72	623	16	49
2-B	1.2	12.0	72	621	15	49
3-A	2.7	8.9	100	800	39	97
3-B	2.7	9.2	100	803	54	96
4-A	2.5	10.0	80	821	118	85
4-B	2.3	10.0	79	820	120	90
5-A	2.2	6.6	120	997	1	130
5-B	2.5	6.6	120	1005	1	132
7-A	2.5	9.9	91	719	112	86
7-B	2.5	9.9	89	720	104	87
8-A	2.0	9.5	75	656	< 1	67
8-B	1.7	9.6	74	658	1	67
9-A	1.8	9.7	87	733	133	253
9-B	1.9	9.7	87	734	115	263
13-A	2.1	9.6	98	796	30	82
13-B	2.1	9.6	95	777	32	81

APPENDIX H-3-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
14-A	<0.1	98	28	23	15	5-10
14-B	<0.1	97	25	15	16	5-10
19-A	<0.1	52	4	2	31	25-35
19-B	<0.1	54	< 1	< 1	32	25-35
20-A	<0.1	22	5	2	162	5-10
20-B	<0.1	21	2	2	149	5-10
21-A	<0.1	21	6	2	153	25-35
21-B	<0.1	22	< 1	8	153	25-35
22-A	<0.1	21	2	3	157	25-35
22-B	<0.1	21	2	11	155	25-35
23-A	<0.1	76	12	13	40	5-10
23-B	<0.1	76	8	9	40	5-10
24-A	<0.1	76	12	9	39	5-10
24-B	<0.1	75	12	13	39	5-10
25-A	<0.1	77	7	8	40	5-10
25-B	<0.1	77	7	4	43	5-10
26-A	<0.1	77	6	5	40	5-10
26-B	<0.1	77	6	5	39	5-10
27-A	<0.1	76	6	3	39	5-10
27-B	<0.1	76	6	4	39	5-10
28-A	<0.1	74	6	3	39	5-10
28-B	<0.1	75	6	4	40	5-10
29-A	<0.1	74	7	6	41	5-10
29-B	<0.1	74	6	7	41	5-10
30-A	<0.1	79	6	4	41	5-10
30-B	<0.1	78	6	4	39	5-10
31-A	<0.1	79	6	5	39	5-10
31-B	<0.1	75	6	5	39	5-10
32-A	<0.1	77	5	5	45	5-10
32-B	<0.1	77	7	4	42	5-10

APPENDIX H-3-1 (Continued)

Station Replicate	Hardness ($CaCO^2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
14-A	671	110	<0.2	<0.01	0.33	None	<0.01	0.01
14-B	671	110	<0.2	<0.01	0.39	None	<0.01	0.02
19-A	867	170	<0.2	<0.01	0.60	None	0.01	0.02
19-B	877	190	<0.2	<0.01	0.48	None	0.01	0.02
20-A	428	90	<0.2	<0.01	0.46	None	0.01	0.04
20-B	428	91	<0.2	<0.01	0.52	None	0.01	0.06
21-A	449	89	<0.2	0.01	1.20	None	0.01	0.32
21-B	459	91	<0.2	0.01	1.20	None	0.01	0.35
22-A	469	87	<0.2	<0.01	1.40	None	0.02	0.70
22-B	469	90	<0.2	<0.01	1.40	None	0.02	0.68
23-A	331	34	<0.2	<0.01	0.21	None	<0.01	0.02
23-B	328	35	<0.2	<0.01	0.18	None	<0.01	0.02
24-A	320	36	<0.2	<0.01	0.26	None	0.01	0.02
24-B	325	34	<0.2	<0.01	0.23	None	0.01	0.02
25-A	331	30	<0.2	<0.01	0.23	None	0.01	0.03
25-B	325	31	<0.2	<0.01	0.26	None	0.01	0.02
26-A	328	31	<0.2	<0.01	0.20	None	0.01	0.02
26-B	326	31	<0.2	<0.01	0.24	None	0.01	0.02
27-A	326	30	<0.2	<0.01	0.20	None	0.01	0.02
27-B	324	30	<0.2	<0.01	0.21	None	0.01	0.02
28-A	314	33	<0.2	<0.01	0.16	None	0.01	0.02
28-B	318	30	<0.2	<0.01	0.18	None	0.01	0.02
29-A	320	31	<0.2	<0.01	0.17	None	0.01	0.03
29-B	322	29	<0.2	<0.01	0.18	None	0.01	0.03
30-A	326	30	<0.2	<0.01	0.20	None	0.01	0.03
30-B	326	34	<0.2	<0.01	0.15	None	0.01	0.02
31-A	330	30	<0.2	<0.01	0.22	None	0.01	0.04
31-B	326	30	<0.2	<0.01	0.33	None	0.01	0.03
32-A	308	34	<0.2	<0.01	0.36	None	0.01	0.03
32-B	316	35	<0.2	<0.01	0.29	None	0.01	0.02

APPENDIX H-3-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
14-A	3.3	10.0	170	1212	8	155
14-B	3.3	10.0	160	1232	8	153
19-A	6.9	5.3	380	1947	9	826
19-B	6.7	5.4	380	1959	< 1	839
20-A	6.2	3.0	820	2459	74	471
20-B	6.4	3.0	820	2482	77	469
21-A	7.7	2.9	820	2541	334	481
21-B	7.7	2.9	820	2529	349	486
22-A	7.7	2.5	820	2510	755	519
22-B	7.6	2.5	840	2562	779	492
23-A	2.8	5.7	70	599	18	65
23-B	2.8	5.7	69	584	17	64
24-A	2.8	6.1	67	550	20	62
24-B	2.8	6.1	66	565	20	62
25-A	2.8	6.0	66	569	21	64
25-B	2.9	6.1	66	555	22	63
26-A	2.9	6.0	68	564	15	62
26-B	2.8	5.9	64	575	14	59
27-A	2.8	5.9	54	573	14	61
27-B	3.0	6.0	66	561	15	64
28-A	2.9	5.9	68	617	4	63
28-B	2.9	6.0	71	617	14	64
29-A	2.8	5.9	82	583	23	63
29-B	2.8	5.9	76	596	13	60
30-A	2.6	6.1	63	559	25	62
30-B	2.5	6.0	63	564	20	62
31-A	2.8	6.1	69	562	19	65
31-B	2.8	6.1	70	578	20	62
32-A	2.8	6.0	77	585	19	64
32-B	2.8	6.1	73	580	15	64

APPENDIX H-3-1 (Continued)

Station Replicate	Ammonia (N)	Calcium (Ca)	Organic Carbon(C) Dissolved	Total Organic Carbon(C)	Chloride (Cl)	Color (F)
33-A	<0.1	77	5	6	41	5-10
33-B	<0.1	75	5	6	40	5-10
34-A	<0.1	74	5	3	40	5-10
34-B	<0.1	75	6	4	40	5-10
35-A	<0.1	78	6	5	40	5-10
35-B	<0.1	78	7	5	40	5-10

APPENDIX H-3-1 (Continued)

Station Replicate	Hardness ($CaCO_2$)	Magnesium (Mg)	Nitrate (N)	Nitrite (N)	Kjeldahl Nitrogen (N)	Odor	Ortho-Phosphate (P)	Total Phosphate (P)
33-A	318	32	<0.2	<0.01	0.22	None	<0.01	0.02
33-B	318	34	<0.2	<0.01	0.16	None	<0.01	0.02
34-A	318	33	<0.2	<0.01	0.16	None	<0.01	0.02
34-B	320	33	<0.2	<0.01	0.10	None	<0.01	0.02
35-A	322	30	<0.2	<0.01	0.14	None	<0.01	0.02
35-B	322	30	<0.2	<0.01	0.16	None	<0.01	0.02

APPENDIX H-3-1 (Continued)

Station Replicate	Potassium (K)	Soluble Silica (Si)	Sodium (Na)	Dissolved Solids	Suspended Solids	Sulfate (S)
33-A	2.7	5.9	69	556	13	63
33-B	2.8	6.0	68	559	16	61
34-A	2.6	6.0	67	555	9	63
34-B	2.5	6.1	68	557	18	63
35-A	3.0	6.1	68	563	18	64
35-B	2.8	6.1	68	565	17	64

2.4.2 PHYTOPLANKTON

2.4.2. Phytoplankton

Algal taxa observed in the July - August 1976 phytoplankton collections are listed in Appendix H-14-1. A total of 112 taxa was observed in these samples. Quantitative data from the July - August 1976 samples are presented in Appendix H-4-2.

During the July - August sampling period, the most abundant phytoplankton taxa at the headwater stations were the diatoms Achnanthes minutissima, Navicula cryptocephala, Nitzschia frustulum, and unidentified flagellates. At the tract stations, the most abundant taxa included the diatoms Achnanthes minutissima, Navicula cryptocephala, Nitzschia latens, Nitzschia capitellata, and unidentified flagellates. In Yellow Creek, the most abundant taxa were the diatoms Cyclotella meneghiniana, Nitzschia latens, Nitzschia microcephala, and unidentified flagellates. In the White River, the most abundant taxa were Gomphonema olivaceum, Cocconeis pediculus, unidentified flagellates, and the euglenophyte genus Euglena.

Algal taxa observed in the August - September 1976 collections are listed in Appendix H-5-1. A total of 95 taxa was observed in these collections. Quantitative data from the August - September 1976 collections are presented in Appendix H-5-2.

During the August - September sampling period, the most abundant taxa in the phytoplankton at the headwater stations were the diatoms Achnanthes minutissima, Navicula cryptocephala, Nitzschia capitellata, and unidentified flagellates. At the tract stations, the most abundant taxa were the diatoms Achnanthes minutissima, Navicula cryptocephala, Nitzschia denticula, and unidentified flagellates. In Yellow Creek, the most abundant taxa were the diatoms Cyclotella meneghiniana, Nitzschia holsatica, and unidentified flagellates. In the White River, the most abundant taxa were Cocconeis pediculus, Navicula salinarum var. intermedia, Nitzschia holsatica, and unidentified flagellates.

2.4.2- Phytoplankton Data

PHYTOPLANKTON RAW DATA

APPENDIX H-4-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.

RIC BLANCO LIL SHALE PROJECT 6467 PHYTOPLANKTON JULY , 1976

COLLECTION METHOD - SUBMERSIBLE PUMP

CYANOPHYTA

- CHROOCOCCUS DISPERSUS
- OSCILLATORIA TENUIS
- OSCILLATORIA SPP
- ANABAENA SPP
- CALOTHRIX SPP

CHLOROPHYTA

- CHLAMYDOMONAS GLOBOSA
- CARTERIA DISSECTA
- SPHAEROCYSTIS SCHROETERI
- ULOTHRIX SPP
- STIGEOCLONIUM SPP
- CLADOPHORA SPP
- PEDIASTRUM SIMPLEX
- DOCYSTIS PUSILLA
- ANKISTRODESMUS FALCATUS
- SCENEDESMUS BIJUGA
- SCENEDESMUS QUADRICAUDA
- SPIROGYRA SPP
- CLOSTERIUM LEIBLEINII
- CHLOROPHYTA I

CHRYSOPHYTA

- BICOECA LACUSTRIS

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

CHRYSIDIASTRUM OCELLATUM
MELOSIRA GRANULATA
MELOSIRA ITALICA
THALASSIOSIRA FLUVIATILIS
CYCLOTELLA MENEGHINIANA
STEPHANODISCUS ASTRAEA
STEPHANODISCUS BINDERANUS
ACTINOCYCLUS ROTHII
DIATOMA VULGARE
MERIDION CIRCULARE
FRACILARIA CONSTRUENS
FRAGILARIA LEPTOSTAURON
FRAGILARIA NITZSCHIOIDES
FRAGILARIA PINNATA
FRAGILARIA VAUCHERIAE
SYNEDRA AMPHICEPHALA
SYNEDRA MINUSCULA
SYNEDRA PULCHELLA
SYNEDRA ULNA
ASTERIONELLA FORMOSA
COCCONEIS PEDICULUS

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

COCCONEIS PLACENTULA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
MASTOGLOIA ELLIPTICA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
ANOMOEONEIS SPHAEROPHORA
DIPLONEIS ELLIPTICA
NAVICULA ARVENSIS
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA GREGARIA
NAVICULA LANCEOLATA
NAVICULA MINIMA
NAVICULA MUTICA
NAVICULA PELLICULOSA
NAVICULA PUPULA
NAVICULA PYGMAEA
NAVICULA RADIOSA
NAVICULA SALINARUM VAR. INTERMEDIA

Appendix H-4-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

NAVICULA TRIPUNCTATA
NAVICULA VIRIDULA
NAVICULA SP 2
CALONEIS AMPHISBAENA
CALONEIS BACILLUM
PINNULARIA BOREALIS
PINNULARIA BREBISSONII
PINNULARIA VIRIDIS
AMPHORA OVALIS
AMPHORA OVALIS VAR. PEDICULUS
CYMBELLA AFFINIS
CYMBELLA AMPHICEPHALA
CYMBELLA MICROCEPHALA
CYMBELLA SINUATA
CYMBELLA VENTRICOSA
GOMPHONEMA AFFINE
GOMPHONEMA INTRICATUM
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA SUBCALVATUM
GOMPHONEMA VENTRICOSUM

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

EPITHEMIA SOREX
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FRUSTULUM
NITZSCHIA GRACILIS
NITZSCHIA HOLSATICA
NITZSCHIA HUNGARICA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA MICROCEPHALA
NITZSCHIA PALEA
NITZSCHIA VERMICULARIS
CYMATOPLEURA SOLEA

Appendix H-4-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

SURIRELLA OVATA
SURIRELLA OVALIS

EUGLENOPHYTA

EUGLENA PROXIMA
EUGLENA SPP

CRYPTOPHYTA

CRYPTOMONAS EROSA

MICROFLAGELLATES

FLACELLATE UNIDENTIFIED

APPENDIX H-4-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-4-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1]
(Data are expressed as cells/ml)
COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
STIGEOCLONIUM SPP		.02	.01
CHLOROPHYTA I	5.40	13.50	9.45
GROUP MEAN			9.46
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	74.25	105.30	89.78
SYNEDRA AMPHICEPHALA	1.35		.68
ASTERIONELLA FORMOSA		10.80	5.40
ACHNANTHES LANCEOLATA	9.45	18.90	14.18
ACHNANTHES MINUTISSIMA	55.35	51.30	53.33
NAVICULA CRYPTOCEPHALA		2.70	1.35
NAVICULA PELLICULOSA	2.70	8.10	5.40
AMPHORA OVALIS VAR. PEDICULUS	2.70		1.35
CYMBELLA VENTRICOSA	1.35		.68
GOMPHONEMA INTRICATUM	5.40		2.70
NITZSCHIA ACICULARIS	35.10	45.90	40.50
NITZSCHIA CAPITELLATA	4.05	2.70	3.38
NITZSCHIA FRUSTULUM	2.70	2.70	2.70
NITZSCHIA LINEARIS	1.35	2.70	2.03
GROUP MEAN			223.43

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP		2.70	1.35
GROUP MEAN			1.35
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	17.55	62.10	39.83
GROUP MEAN			39.83

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I		5.40	2.70
GROUP MEAN			2.70
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	6.75		3.38
CYCLOTELLA MENEGHINIANA		2.70	1.35
FRAGILARIA VAUCHERIAE	4.05		2.03
ACHNANTHES LANCEOLATA	10.80	8.10	9.45
ACHNANTHES MINUTISSIMA	74.25	97.20	85.73
RHOICOSPHENIA CURVATA		5.40	2.70
NAVICULA CRYPTOCEPHALA	21.60	43.20	32.40
NAVICULA PELLICULOSA	6.75	8.10	7.43
NAVICULA SP 2	4.05		2.03
CALONEIS BACILLUM	2.70		1.35
AMPHORA OVALIS VAR. PEDICULUS	1.35		.68
GOMPHONEMA INTRICATUM		5.40	2.70
NITZSCHIA CAPITELLATA	8.10		4.05
NITZSCHIA FRUSTULUM	10.80	21.60	16.20
NITZSCHIA LINEARIS	2.70		1.35
NITZSCHIA PALEA	1.35		.68
GROUP MEAN			173.48

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP		2.70	1.35
GROUP MEAN			1.35
CRYPTOPHYTA			
CRYPTOMONAS EROSA	1.35		.68
GROUP MEAN			.68
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	40.50	32.40	36.45
GROUP MEAN			36.45

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.20		21.60
ANABAENA SPP		10.80	5.40
GROUP MEAN			27.00
CHLOROPHYTA			
STIGEOCLONIUM SPP	.24		.12
SPIROGYRA SPP	.16	.21	.19
CHLOROPHYTA I	162.00	216.00	189.00
GROUP MEAN			189.31
CHRYSOPHYTA			
FRAGILARIA NITZSCHIOIDES		21.60	10.80
SYNEDRA MINUSCULA	10.80		5.40
COCCONEIS PEDICULUS		10.80	5.40
ACHNANTHES LANCEOLATA	64.80	54.00	59.40
ACHNANTHES MINUTISSIMA	324.00	540.00	432.00
ANOMOEONEIS SPHAEROPHORA	43.20	75.60	59.40
NAVICULA ARVENSIS	10.80	43.20	27.00
NAVICULA CRYPTOCEPHALA	1890.00	1846.80	1868.40
NAVICULA MINIMA	10.80		5.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA MUTICA		10.80	5.40
NAVICULA PELLICULOSA	75.60	118.80	97.20
NAVICULA PUPULA	10.80		5.40
NAVICULA TRIPUNCTATA	10.80		5.40
NAVICULA SP 1	216.00		108.00
NAVICULA SP 2	86.40	464.40	275.40
CALONEIS BACILLUM	32.40	21.60	27.00
PINNULARIA BREBISSONII	10.80	10.80	10.80
AMPHORA OVALIS	10.80		5.40
CYMBELLA AFFINIS	10.80		5.40
CYMBELLA MICROCEPHALA	64.80	97.20	81.00
CYMBELLA VENTRICOSA	21.60	10.80	16.20
GOMPHONEMA INTRICATUM	10.80	32.40	21.60
CYLINDROTHECA GRACILIS		10.80	5.40
HANTZSCHIA AMPHIOXYS	10.80		5.40
NITZSCHIA CAPITELLATA	237.60	205.20	221.40
NITZSCHIA DENTICULA	21.60	32.40	27.00
NITZSCHIA DISSIPATA	10.80	32.40	21.60
NITZSCHIA FRUSTULUM	291.60	313.20	302.40
NITZSCHIA HOLSATICA		21.60	10.80

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LATENS	140.40	129.60	135.00
NITZSCHIA LINEARIS	194.40	75.60	135.00
NITZSCHIA MICROCEPHALA		32.40	16.20
SURIRELLA OVATA	118.80	54.00	86.40
SURIRELLA OVALIS	21.60	10.80	16.20
GROUP MEAN			4120.20
EUGLENOPHYTA			
EUGLENA SPP	43.20	21.60	32.40
GROUP MEAN			32.40
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	432.00	540.00	486.00
GROUP MEAN			486.00

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCLCCUS DISPERSUS	75.60	151.20	113.40
GROUP MEAN			113.40
CHLOROPHYTA			
CHLOROPHYTA I	8.10	21.60	14.85
GROUP MEAN			14.85
CHRYSOPHYTA			
STEPHANODISCUS ASTRAEA		2.70	1.35
SYNEDRA AMPHICEPHALA		2.70	1.35
ACHNANTHES LANCEOLATA	32.40	29.70	31.05
ACHNANTHES MINUTISSIMA	256.50	372.60	314.55
NAVICULA ARVENSIS		5.40	2.70
NAVICULA CRYPTOCEPHALA	229.50	388.80	309.15
NAVICULA GREGARIA		2.70	1.35
NAVICULA MINIMA	10.80	16.20	13.50
NAVICULA PELLICULOSA	37.80	45.90	41.85
NAVICULA SP 2	8.10	5.40	6.75
PINNULARIA BREBISSONII		2.70	1.35
AMPHORA OVALIS	8.10	10.80	9.45

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA AFFINIS	5.40		2.70
CYMBELLA VENTRICOSA	8.10		4.05
GOMPHONEMA INTRICATUM		5.40	2.70
CYLINDROTHECA GRACILIS		2.70	1.35
NITZSCHIA ACICULARIS	5.40		2.70
NITZSCHIA CAPITELLATA	40.50	45.90	43.20
NITZSCHIA DENTICULA	24.30	43.20	33.75
NITZSCHIA DISSIPATA		5.40	2.70
NITZSCHIA FRUSTULUM	43.20	16.20	29.70
NITZSCHIA LATENS	8.10	24.30	16.20
NITZSCHIA LINEARIS	18.90	18.90	18.90
GROUP MEAN			892.35
EUGLENOPHYTA			
EUGLENA SPP	2.70		1.35
GROUP MEAN			1.35
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	40.50	59.40	49.95
GROUP MEAN			49.95

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXLN	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	10.80	54.00	32.40
GROUP MEAN			32.40
CHLOROPHYTA			
CARTERIA DISSECTA		8.10	4.05
PEDIASTRUM SIMPLEX		.13	.07
ANKISTRODESMUS FALCATUS	2.70	24.30	13.50
SCENEDESMUS BIJUGA		37.80	18.90
SCENEDESMUS QUADRICAUDA		56.70	28.35
CLOSTERIUM LEIBLEINII	.01	.01	.01
CHLOROPHYTA I	18.90	45.90	32.40
GROUP MEAN			97.28
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	2.70	5.40	4.05
STEPHANODISCUS ASTRAEA		2.70	1.35
SYNEDRA AMPHICEPHALA		2.70	1.35
COCCONEIS PEDICULUS	148.50	145.80	147.15
COCCONEIS PLACENTULA	2.70		1.35
ACHNANTHES LANCEOLATA	2.70	8.10	5.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA	18.90	24.30	21.60
GYROSIGMA ACUMINATUM		5.40	2.70
PLEUROSIGMA DELICATULUM	18.90	43.20	31.05
NAVICULA ARVENSIS	2.70		1.35
NAVICULA CRYPTOCEPHALA	16.20	18.90	17.55
NAVICULA CUSPIDATA	.01	5.40	2.71
NAVICULA PELLICULOSA	8.10	13.50	10.80
NAVICULA RADIOSA	8.10	10.80	9.45
NAVICULA SP 2		2.70	1.35
PINNULARIA BREBISSONII	2.70		1.35
PINNULARIA VIRIDIS	2.70		1.35
AMPHORA OVALIS	5.40		2.70
CYMBELLA AMPHICEPHALA	2.70		1.35
CYMBELLA MICROCEPHALA		5.40	2.70
GOMPHONEMA OLIVACEUM		5.40	2.70
GOMPHONEMA PARVULUM	2.70		1.35
GOMPHONEMA SUBCALVATUM		2.70	1.35
GOMPHONEMA VENTRICOSUM	2.70		1.35
EPITHEMIA ZEBRA	2.70		1.35
HANTZSCHIA AMPHIOXYS		2.70	1.35

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA ACICULARIS	2.70	10.80	6.75
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	8.10	40.50	24.30
NITZSCHIA FRUSTULUM		8.10	4.05
NITZSCHIA LATENS	5.40	16.20	10.80
NITZSCHIA VERMICULARIS	.01		.01
GROUP MEAN			325.36
EUGLENOPHYTA			
EUGLENA PROXIMA	5.40		2.70
EUGLENA SPP		5.40	2.70
GROUP MEAN			5.40
CRYPTOPHYTA			
CRYPTOMONAS EROSA	13.50	10.80	12.15
GROUP MEAN			12.15
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	89.10	86.40	87.75
GROUP MEAN			87.75

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.20	21.60	32.40
OSCILLATERIA SPP		10.80	5.40
GROUP MEAN			37.80
CHLOROPHYTA			
PEDIASTRUM SIMPLEX		.06	.03
CHLOROPHYTA 1	54.00	54.00	54.00
GROUP MEAN			54.03
CHRYSOPHYTA			
MELOSIRA GRANULATA	10.80		5.40
COCCONEIS PLACENTULA		5.40	2.70
ACHNANTHES LANCEOLATA	32.40	27.00	29.70
ACHNANTHES MINUTISSIMA	2106.00	1949.40	2027.70
GYROSIGMA ACUMINATUM	10.80	10.80	10.80
NAVICULA ARVENSIS		10.80	5.40
NAVICULA CRYPTOCEPHALA	491.40	442.80	467.10
NAVICULA CUSPIDATA		.01	.01
NAVICULA GREGARIA		5.40	2.70
NAVICULA MINIMA	5.40		2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXEN	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	27.00	32.40	29.70
NAVICULA PYGMAEA		5.40	2.70
NAVICULA VIRIDULA	32.40	10.80	21.60
NAVICULA SP 2	32.40	21.60	27.00
CALONEIS BACILLUM	10.80	16.20	13.50
PINNULARIA BREBISSONII	10.80		5.40
AMPHORA OVALIS	21.60		10.80
GOMPHONEMA INTRICATUM	5.40	10.80	8.10
GOMPHONEMA PARVULUM	32.40		16.20
GOMPHONEMA SUBCALVATUM		10.80	5.40
RHOPALODIA GIBBERULA	21.60	5.40	13.50
CYLINDROTHECA GRACILIS	37.80	32.40	35.10
NITZSCHIA ACICULARIS	43.20	37.80	40.50
NITZSCHIA APICULATA	10.80		5.40
NITZSCHIA CAPITELLATA	264.60	221.40	243.00
NITZSCHIA DENTICULA	383.40	372.60	378.00
NITZSCHIA FRUSTULUM	81.00	113.40	97.20
NITZSCHIA LATENS	361.80	318.60	340.20
NITZSCHIA LINEARIS	16.20	21.60	18.90
NITZSCHIA MICROCEPHALA		32.40	16.20

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SURIRELLA OVATA	21.60	21.60	21.60
GROUP MEAN			3904.21
EUGLENOPHYTA			
EUGLENA PROXIMA	21.60		10.80
EUGLENA SPP		16.20	8.10
GROUP MEAN			18.90
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	189.00	135.00	162.00
GROUP MEAN			162.00

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = B

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
STIGEOCLONIUM SPP	8.10		4.05
GROUP MEAN			4.05
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	83.70	43.20	63.45
ACHNANTHES LANCEOLATA	54.00	29.70	41.85
ACHNANTHES MINUTISSIMA	75.60	45.90	60.75
NAVICULA CRYPTOCEPHALA	16.20	24.30	20.25
NAVICULA PELLICULOSA		2.70	1.35
GOMPHONEMA INTRICATUM	8.10	2.70	5.40
CYLINDROTHECA GRACILIS		2.70	1.35
NITZSCHIA ACICULARIS		2.70	1.35
NITZSCHIA CAPITELLATA	13.50	5.40	9.45
NITZSCHIA FRUSTULUM	29.70	8.10	18.90
NITZSCHIA LATENS		2.70	1.35
NITZSCHIA PALEA	2.70		1.35
SURIRELLA OVATA	5.40		2.70
GROUP MEAN			229.50

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	40.50	33.75
GROUP MEAN			33.75

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.20		21.60
ANABAENA SPP		2.70	1.35
GROUP MEAN			22.95
CHLOROPHYTA			
ZYGNEMA SPP	.06		.03
CLOSTERIUM LEIBLEINII		2.70	1.35
CHLOROPHYTA I	70.20	67.50	68.85
GROUP MEAN			70.23
CHRYSOPHYTA			
MERIDION CIRCULARE		24.30	12.15
SYNEDRA AMPHICEPHALA	10.80	5.40	8.10
ACHNANTHES LANCEOLATA	10.80	8.10	9.45
ACHNANTHES MINUTISSIMA	108.00	170.10	139.05
NAVICULA ARVENSIS	5.40		2.70
NAVICULA CRYPTOCEPHALA	388.80	650.70	519.75
NAVICULA MUTICA		2.70	1.35
NAVICULA PELLICULOSA	43.20	43.20	43.20
NAVICULA TRIPUNCTATA		10.80	5.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA VIRIDULA	16.20	27.00	21.60
NAVICULA SP 2	21.60	16.20	18.90
CALONEIS BACILLUM		13.50	6.75
PINNULARIA BREBISSONII	.01	13.50	6.76
AMPHORA OVALIS	16.20	5.40	10.80
CYMBELLA AFFINIS	10.80	10.80	10.80
GOMPHONEMA INTRICATUM	5.40	10.80	8.10
CYLINDROTHECA GRACILIS	5.40	8.10	6.75
HANTZSCHIA AMPHIOXYS		5.40	2.70
NITZSCHIA ACICULARIS	113.40	137.70	125.55
NITZSCHIA APICULATA	10.80		5.40
NITZSCHIA CAPITELLATA	97.20	137.70	117.45
NITZSCHIA DENTICULA	16.20	21.60	18.90
NITZSCHIA FRUSTULUM	27.00	35.10	31.05
NITZSCHIA LATENS	75.60	145.80	110.70
NITZSCHIA LINEARIS	54.00	72.90	63.45
NITZSCHIA MICROCEPHALA	10.80	8.10	9.45
SURIRELLA OVATA		8.10	4.05
GROUP MEAN			1320.31

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA	32.40	13.50	22.95
GROUP MEAN			22.95
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	162.00	81.00	121.50
GROUP MEAN			121.50

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ULOTHRIX SPP	.08		.04
STIGEOCLONIUM SPP		.01	.01
CLOSTERIUM LEIBLEINII	.01		.01
CHLOROPHYTA I	13.50	10.80	12.15
GROUP MEAN			12.20
CHRYSOPHYTA			
CHRYSIDIASTRUM OCELLATUM	16.20	29.70	22.95
FRAGILARIA VAUCHERIAE	2.70	5.40	4.05
SYNEDRA AMPHICEPHALA		2.70	1.35
SYNEDRA ULNA	5.40	2.70	4.05
ACHNANTHES LANCEOLATA	32.40	54.00	43.20
ACHNANTHES MINUTISSIMA	329.40	361.80	345.60
GYROSIGMA ACUMINATUM	2.70	2.70	2.70
NAVICULA ARVENSIS		8.10	4.05
NAVICULA CRYPTOCEPHALA	213.30	267.30	240.30
NAVICULA MINIMA	2.70		1.35
NAVICULA PELLICULOSA	62.10	81.00	71.55
NAVICULA VIRIDULA	8.10		4.05
NAVICULA SP 2		8.10	4.05

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS BACILLUM	2.70		1.35
PINNULARIA BREBISSONII		2.70	1.35
PINNULARIA VIRIDIS	.01		.01
AMPHORA OVALIS		2.70	1.35
CYMBELLA AFFINIS	135.00	110.70	122.85
CYMBELLA MICROCEPHALA		5.40	2.70
GOMPHONEMA AFFINE		2.70	1.35
GOMPHONEMA INTRICATUM	18.90	13.50	16.20
GOMPHONEMA PARVULUM	5.40	5.40	5.40
GOMPHONEMA SUBCALVATUM	2.70		1.35
CYLINDROTHECA GRACILIS	5.40		2.70
NITZSCHIA ACICULARIS	32.40	18.90	25.65
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	89.10	75.60	82.35
NITZSCHIA DISSIPATA		2.70	1.35
NITZSCHIA FRUSTULUM	18.90	24.30	21.60
NITZSCHIA HOLSATICA		13.50	6.75
NITZSCHIA LATENS	27.00		13.50
NITZSCHIA LINEARIS	10.80		5.40
NITZSCHIA MICROCEPHALA	16.20		8.10

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA PALEA		8.10	4.05
SURIRELLA OVATA		10.80	5.40
GROUP MEAN			1081.36
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	16.20	35.10
GROUP MEAN			35.10

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	32.40		16.20
ANKISTRODESMUS FALCATUS		5.40	2.70
SPIROGYRA SPP		.08	.04
ZYGNEMA SPP	.30	.04	.17
CLOSTERIUM LEIBLEINII	.02	.01	.02
CHLOROPHYTA I	18.90	48.60	33.75
GROUP MEAN			52.88
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	16.20	48.60	32.40
SYNEDRA AMPHICEPHALA		10.80	5.40
ACHNANTHES LANCEOLATA	2.70		1.35
ACHNANTHES MINUTISSIMA	16.20	64.80	40.50
NAVICULA CRYPTOCEPHALA	45.90	108.00	76.95
NAVICULA PELLICULOSA	32.40	10.80	21.60
NAVICULA VIRIDULA	2.70		1.35
CALONEIS BACILLUM		5.40	2.70
CYMBELLA AMPHICEPHALA	2.70		1.35
NITZSCHIA CAPITELLATA	13.50	32.40	22.95
NITZSCHIA DENTICULA	16.20	43.20	29.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA FRUSTULUM	16.20	54.00	35.10
NITZSCHIA LATENS	10.80	16.20	13.50
NITZSCHIA MICROCEPHALA	21.60		10.80
GROUP MEAN			295.65
EUGLENOPHYTA			
EUGLENA PROXIMA	8.10		4.05
EUGLENA SPP		21.60	10.80
GROUP MEAN			14.85
CRYPTOPHYTA			
CRYPTOMONAS ERUSA	32.40	27.00	29.70
GROUP MEAN			29.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	153.90	151.20	152.55
GROUP MEAN			152.55

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	21.60	172.80	97.20
OSCILLATORIA SPP	16.20	13.50	14.85
ANABAENA SPP	32.40		16.20
GROUP MEAN			128.25
CHLOROPHYTA			
CHLOROPHYTA 1	86.40	54.00	70.20
GROUP MEAN			70.20
CHRYSOPHYTA			
EUNOTIA LACUSTRIS	48.60		24.30
CYCLOTELLA MENEGHINIANA	5.40		2.70
SYNEDRA AMPHICEPHALA	10.80	2.70	6.75
SYNEDRA PULCHELLA	2.70	5.40	4.05
COCCONEIS PEDICULUS	8.10	2.70	5.40
ACHNANTHES MINUTISSIMA	8.10	18.90	13.50
RHOICOSPHENIA CURVATA	2.70		1.35
PLEUROSIGMA DELICATULUM	8.10	13.50	10.80
NAVICULA CRYPTOCEPHALA	8.10	8.10	8.10
NAVICULA GREGARIA	2.70		1.35

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA		5.40	2.70
NAVICULA VIRIDULA		2.70	1.35
NITZSCHIA APICULATA	2.70		1.35
NITZSCHIA CAPITELLATA	16.20	27.00	21.60
NITZSCHIA FRUSTULUM	43.20	13.50	28.35
NITZSCHIA HOLSATICA	35.10	16.20	25.65
NITZSCHIA LATENS	2.70		1.35
NITZSCHIA LINEARIS		5.40	2.70
NITZSCHIA MICROCEPHALA	56.70	78.30	67.50
GROUP MEAN			230.85
EUGLENOPHYTA			
EUGLENA SPP	2.70		1.35
GROUP MEAN			1.35
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	8.10	5.40
GROUP MEAN			5.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXLN	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	108.00	37.80	72.90
GROUP MEAN			72.90

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP		10.80	5.40
ANABAENA SPP	10.80		5.40
GROUP MEAN			10.80
CHLOROPHYTA			
STIGEOCLONIUM SPP		.05	.03
SPIROGYRA SPP		.05	.03
CHLOROPHYTA I	32.40	32.40	32.40
GROUP MEAN			32.45
CHRYSOPHYTA			
MELOSIRA ITALICA		.01	.01
CYCLOTELLA MENEGHINIANA	518.40	702.00	610.20
ACHNANTHES MINUTISSIMA	10.80	27.00	18.90
MASTOGLOIA ELLIPTICA	5.40	10.80	8.10
NAVICULA CRYPTOCEPHALA	5.40	21.60	13.50
NAVICULA PELLICULOSA	5.40	5.40	5.40
NAVICULA VIRIDULA	16.20		8.10
CYMBELLA VENTRICOSA	5.40	5.40	5.40
GOMPHONEMA SUBCALVATUM	27.00		13.50

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYLINDROTHECA GRACILIS	5.40	5.40	5.40
NITZSCHIA ACICULARIS		5.40	2.70
NITZSCHIA CAPITELLATA	5.40	16.20	10.80
NITZSCHIA DENTICULA		5.40	2.70
NITZSCHIA FRUSTULUM	37.80	43.20	40.50
NITZSCHIA HOLSATICA	124.20	394.20	259.20
NITZSCHIA LATENS	43.20	162.00	102.60
NITZSCHIA MICROCEPHALA	59.40	75.60	67.50
GROUP MEAN			1174.51
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	178.20	54.00	116.10
GROUP MEAN			116.10

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	21.60	5.40	13.50
GROUP MEAN			13.50
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS		5.40	2.70
CHLOROPHYTA I	54.00	97.20	75.60
GROUP MEAN			78.30
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	831.60	982.80	907.20
FRAGILARIA VAUCHERIAE		5.40	2.70
SYNEDRA PULCHELLA	5.40	16.20	10.80
MASTOGLOIA ELLIPTICA	10.80	5.40	8.10
NAVICULA CRYPTOCEPHALA	108.00	102.60	105.30
NAVICULA PELLICULOSA	5.40		2.70
NAVICULA VIRIDULA	5.40	32.40	18.90
CYMBELLA VENTRICOSA		5.40	2.70
GOMPHONEMA INTRICATUM	5.40		2.70
GOMPHONEMA SUBCALVATUM	10.80	10.80	10.80
CYLINDROTHECA GRACILIS	43.20	27.00	35.10

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA APICULATA	5.40	21.60	13.50
NITZSCHIA CAPITELLATA	21.60	37.80	29.70
NITZSCHIA FRUSTULUM	81.00	70.20	75.60
NITZSCHIA HUNGARICA	10.80	16.20	13.50
NITZSCHIA LATENS	658.80	739.80	699.30
NITZSCHIA LINEARIS		5.40	2.70
NITZSCHIA MICROCEPHALA	75.60	108.00	91.80
SURIRELLA OVATA	5.40	54.00	29.70
GROUP MEAN			2062.80
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	135.00	243.00	189.00
GROUP MEAN			189.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXEN	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP		5.40	2.70
CALOTHRIX SPP	10.80		5.40
GROUP MEAN			8.10
CHLOROPHYTA			
STIGEOCLONIUM SPP	.08	.01	.05
CHLOROPHYTA I	75.60	48.60	62.10
GROUP MEAN			62.15
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	97.20	48.60	72.90
SYNEDRA AMPHICEPHALA		5.40	2.70
ASTERIONELLA FORMOSA		10.80	5.40
NAVICULA CRYPTOCEPHALA	5.40	5.40	5.40
NAVICULA PELLICULOSA	54.00	48.60	51.30
NAVICULA SALINARUM VAR. INTERMEDIA		10.80	5.40
CYMBELLA VENTRICOSA	10.80	5.40	8.10
GOMPHONEMA INTRICATUM	5.40	5.40	5.40
GOMPHONEMA OLIVACEUM	16.20	16.20	16.20
	5.40	5.40	5.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA APICULATA	5.40		2.70
NITZSCHIA CAPITELLATA	21.60	32.40	27.00
NITZSCHIA FRUSTULUM	113.40	48.60	81.00
NITZSCHIA LATENS	248.40	167.40	207.90
NITZSCHIA MICROCEPHALA	216.00	145.80	180.90
SURIRELLA OVATA	10.80		5.40
GROUP MEAN			683.10
EUGLENOPHYTA			
EUGLENA SPP	32.40		16.20
GROUP MEAN			16.20
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	151.20	113.40	132.30
GROUP MEAN			132.30

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		21.60	10.80
OSCILLATORIA SPP	5.40	10.80	8.10
GROUP MEAN			18.90
CHLOROPHYTA			
STIGEOCLONIUM SPP		.02	.01
ANKISTRODESMUS FALCATUS	10.80		5.40
CHLOROPHYTA I	97.20	70.20	83.70
GROUP MEAN			89.11
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	27.00	21.60	24.30
STEPHANODISCUS ASTRAEA	5.40	5.40	5.40
DIATOMA VULGARE	5.40		2.70
FRAGILARIA LEPTOSTAURON	21.60	10.80	16.20
SYNEDRA ULNA		10.80	5.40
COCCONEIS PEDICULUS	48.60	27.00	37.80
GYROSIGMA ACUMINATUM		.01	.01
NAVICULA CRYPTOCEPHALA	59.40	21.60	40.50
NAVICULA MUTICA		10.80	5.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXLN	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PUPULA		5.40	2.70
NAVICULA SALINARUM VAR. INTERMEDIA	10.80	5.40	8.10
NAVICULA TRIPUNCTATA	10.80	16.20	13.50
NAVICULA VIRIDULA	5.40	16.20	10.80
CALONEIS BACILLUM	21.60	10.80	16.20
PINNULARIA BOREALIS	5.40		2.70
CYMBELLA AFFINIS	10.80	5.40	8.10
CYMBELLA SINUATA		10.80	5.40
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA INTRICATUM		10.80	5.40
GOMPHONEMA OLIVACEUM	16.20	32.40	24.30
EPITHEMIA SOREX	27.00	32.40	29.70
HANTZSCHIA AMPHIOXYS	10.80	10.80	10.80
NITZSCHIA ACICULARIS	5.40		2.70
NITZSCHIA APICULATA	5.40		2.70
NITZSCHIA CAPITELLATA	59.40	43.20	51.30
NITZSCHIA DISSIPATA	10.80	5.40	8.10
NITZSCHIA LATENS	5.40	21.60	13.50
NITZSCHIA MICROCEPHALA		5.40	2.70
CYMATOPLEURA SOLEA	.01		.01
GROUP MEAN			361.81

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
ELGLENA SPP	91.80	124.20	108.00
GROUP MEAN			108.00
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	5.40	5.40
GROUP MEAN			5.40
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	75.60	70.20	72.90
GROUP MEAN			72.90

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
SPHAERLCYSTIS SCHROETERI		86.40	43.20
CHLOROPHYTA I	37.80	27.00	32.40
GROUP MEAN			75.60
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS	5.40		2.70
CYCLOTELLA MENEGHINIANA	32.40	16.20	24.30
STEPHANODISCUS ASTRAEA	10.80	10.80	10.80
FRAGILARIA LEPTOSTAURON		21.60	10.80
SYNEDRA ULNA	5.40		2.70
COCCONEIS PEDICULUS	102.60	124.20	113.40
ACHNANTHES LANCEOLATA		5.40	2.70
ACHNANTHES MINUTISSIMA		21.60	10.80
RHOICOSPHENIA CURVATA		27.00	13.50
NAVICULA CRYPTOCEPHALA	37.80	59.40	48.60
NAVICULA PELLICULOSA		5.40	2.70
NAVICULA SALINARUM VAR. INTERMEDIA	10.80	10.80	10.80
NAVICULA TRIPUNCTATA	16.20		8.10
NAVICULA VIRIDULA	32.40	10.80	21.60
CALONEIS AMPHISBAENA		5.40	2.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS BACILLUM	5.40		2.70
PINNULARIA BOREALIS		5.40	2.70
AMPHORA OVALIS		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS		43.20	21.60
CYMBELLA AFFINIS	16.20		8.10
GOMPHONEMA OLIVACEUM	37.80	10.80	24.30
GOMPHONEMA VENTRICOSUM		5.40	2.70
EPITHEMIA SOREX	21.60	5.40	13.50
HANTZSCHIA AMPHIOXYS	5.40		2.70
NITZSCHIA ACICULARIS	10.80	16.20	13.50
NITZSCHIA CAPITELLATA	32.40	54.00	43.20
NITZSCHIA DISSIPATA	16.20	27.00	21.60
NITZSCHIA FRUSTULUM		5.40	2.70
NITZSCHIA GRACILIS	5.40	5.40	5.40
NITZSCHIA LATENS		10.80	5.40
NITZSCHIA MICROCEPHALA	5.40		2.70
GROUP MEAN			461.70
EUGLENOPHYTA			
EUGLENA SPP	21.60	27.00	24.30
GROUP MEAN			24.30

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.40	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	91.80	32.40	62.10
GROUP MEAN			62.10

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
DOCYSTIS PUSILLA		21.60	10.80
CHLOROPHYTA I	37.80	48.60	43.20
GROUP MEAN			54.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	27.00	16.20	21.60
STEPHANODISCUS ASTRAEA		5.40	2.70
DIATOMA VULGARE		5.40	2.70
FRAGILARIA CONSTRUENS	10.80		5.40
FRAGILARIA LEPTOSTAURON		10.80	5.40
SYNEDRA AMPHICEPHALA	.01		.01
COCCONEIS PEDICULUS	124.20	108.00	116.10
ACHNANTHES MINUTISSIMA		5.40	2.70
PLEUROSIGMA DELICATULUM	.01		.01
NAVICULA CRYPTOCEPHALA	70.20	43.20	56.70
NAVICULA PELLICULOSA	16.20		8.10
NAVICULA SALINARUM VAR. INTERMEDIA	10.80	27.00	18.90
NAVICULA TRIPUNCTATA	5.40	27.00	16.20
NAVICULA VIRIDULA	5.40	21.60	13.50
AMPHORA OVALIS VAR. PEDICULUS	5.40		2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA AFFINIS	10.80		5.40
CYMBELLA SINUATA	10.80		5.40
CYMBELLA VENTRICOSA	5.40		2.70
GOMPHONEMA OLIVACEUM	21.60	37.80	29.70
GOMPHONEMA PARVULUM		5.40	2.70
EPITHEMIA SOREX	27.00	10.80	18.90
NITZSCHIA ACICULARIS	10.80	16.20	13.50
NITZSCHIA CAPITELLATA	54.00	48.60	51.30
NITZSCHIA DISSIPATA	10.80	10.80	10.80
NITZSCHIA FRUSTULUM	10.80	5.40	8.10
NITZSCHIA GRACILIS		5.40	2.70
NITZSCHIA HUNGARICA	5.40		2.70
NITZSCHIA LATENS	16.20		8.10
NITZSCHIA MICROCEPHALA		5.40	2.70
GROUP MEAN			437.41
EUGLENOPHYTA			
EUGLENA SPP	27.00	27.00	27.00
GROUP MEAN			27.00

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	10.80	21.60	16.20
GROUP MEAN			16.20
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	102.60	64.80	83.70
GROUP MEAN			83.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	10.80		5.40
SCENEDESMUS QUADRICAUDA		21.60	10.80
CHLOROPHYTA I	32.40	21.60	27.00
GROUP MEAN			43.20
CHRYSOPHYTA			
RICOECA LACUSTRIS	108.00		54.00
THALASSIOSIRA FLUVIATILIS	10.80		5.40
CYCLOTELLA MENEGHINIANA	37.80	32.40	35.10
STEPHANODISCUS ASTRAEA	10.80		5.40
FRAGILARIA CONSTRUENS	10.80		5.40
FRAGILARIA LEPTOSTAURON		32.40	16.20
SYNEDRA ULNA	5.40		2.70
COCCONEIS PEDICULUS	97.20	118.80	108.00
ACHNANTHES MINUTISSIMA	10.80	5.40	8.10
ANOMOEONEIS SPHAEROPHORA		5.40	2.70
NAVICULA CRYPTOCEPHALA	16.20	43.20	29.70
NAVICULA SALINARUM VAR. INTERMEDIA	5.40	5.40	5.40
NAVICULA TRIPUNCTATA	21.60	5.40	13.50
NAVICULA VIRIDULA	10.80	27.00	18.90

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHORA OVALIS VAR. PEDICULUS		16.20	8.10
CYMBELLA AFFINIS		5.40	2.70
CYMBELLA SINUATA		10.80	5.40
CYMBELLA VENTRICOSA		5.40	2.70
GOMPHONEMA OLIVACEUM	21.60	43.20	32.40
GOMPHONEMA SUBCALVATUM	5.40		2.70
EPITHEMIA SOREX	5.40	10.80	8.10
NITZSCHIA APICULATA	5.40		2.70
NITZSCHIA CAPITELLATA	43.20		21.60
NITZSCHIA DISSIPATA	10.80	10.80	10.80
NITZSCHIA FRUSTULUM	5.40	5.40	5.40
NITZSCHIA GRACILIS		10.80	5.40
NITZSCHIA HUNGARICA		5.40	2.70
NITZSCHIA LATENS		10.80	5.40
NITZSCHIA LINEARIS		5.40	2.70
NITZSCHIA PALEA	10.80		5.40
GROUP MEAN			434.70
EUGLENOPHYTA			
EUGLENA SPP	21.60	10.80	16.20
GROUP MEAN			16.20

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	16.20	16.20	16.20
GROUP MEAN			16.20
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	64.80	32.40	48.60
GROUP MEAN			48.60

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROCOCCUS DISPERSUS	259.20		129.60
OSCILLATORIA SPP		37.80	18.90
ANABAENA SPP	21.60		10.80
GROUP MEAN			159.30
CHLOROPHYTA			
CHLOROPHYTA I	86.40	48.60	67.50
GROUP MEAN			67.50
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	43.20	54.00	48.60
STEPHANODISCUS ASTRAEA	10.80	10.80	10.80
DIATOMA VULGARE	10.80		5.40
FRAGILARIA LEPTOSTAURON	21.60	37.80	29.70
FRAGILARIA PINNATA	21.60		10.80
FRAGILARIA VAUCHERIAE	10.80		5.40
CLOCONEIS PEDICULUS	54.00	70.20	62.10
ACHNANTHES LANCEOLATA		16.20	8.10
ACHNANTHES MINUTISSIMA		21.60	10.80
NAVICULA ARVENSIS	21.60		10.80

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA CRYPTOCEPHALA	129.60	48.60	89.10
NAVICULA MINIMA	21.60		10.80
NAVICULA PUPULA		5.40	2.70
NAVICULA SALINARUM VAR. INTERMEDIA	10.80	10.80	10.80
NAVICULA TRIPUNCTATA	10.80	10.80	10.80
NAVICULA VIRIDULA	54.00		27.00
CYMBELLA AFFINIS		21.60	10.80
CYMBELLA SINUATA	10.80		5.40
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA OLIVACEUM	183.60	54.00	118.80
GOMPHONEMA PARVULUM		5.40	2.70
GOMPHONEMA VENTRICOSUM	10.80		5.40
EPITHEMIA SOREX	129.60	108.00	118.80
HANTZSCHIA AMPHIOXYS	21.60		10.80
NITZSCHIA ACICULARIS	10.80	16.20	13.50
NITZSCHIA APICULATA	10.80		5.40
NITZSCHIA CAPITELLATA	86.40	32.40	59.40
NITZSCHIA GRACILIS	10.80		5.40
GROUP MEAN			715.50

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	21.60	43.20	32.40
GROUP MEAN			32.40
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.40	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	129.60	64.80	97.20
GROUP MEAN			97.20

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROCCICCUS DISPERSUS		172.80	86.40
OSCILLATORIA SPP		43.20	21.60
GROUP MEAN			108.00
CHLOROPHYTA			
CHLOROPHYTA I	64.80	43.20	54.00
GROUP MEAN			54.00
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	43.20	21.60	32.40
STEPHANODISCUS ASTRAEA		5.40	2.70
DIATOMA VULGARE	10.80		5.40
FRAGILARIA LEPTOSTAURON		5.40	2.70
FRAGILARIA VAUCHERIAE	10.80		5.40
SYNEDRA ULNA		5.40	2.70
COCCONEIS PEDICULUS	97.20	54.00	75.60
ACHNANTHES MINUTISSIMA	21.60	21.60	21.60
ANOMOEONEIS SPHAEROPHORA		5.40	2.70
NAVICULA CRYPTOCEPHALA	108.00	86.40	97.20
NAVICULA MUTICA		5.40	2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	43.20		21.60
NAVICULA PUPULA		16.20	8.10
NAVICULA SALINARUM VAR. INTERMEDIA	21.60	5.40	13.50
NAVICULA TRIPUNCTATA	10.80	27.00	18.90
NAVICULA VIRIDULA	21.60	54.00	37.80
PINNULARIA BOREALIS	10.80		5.40
AMPHORA OVALIS		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS	21.60	5.40	13.50
CYMBELLA AFFINIS	10.80	27.00	18.90
CYMBELLA SINUATA	21.60		10.80
GOMPHONEMA INTRICATUM	10.80		5.40
GOMPHONEMA OLIVACEUM	151.20	124.20	137.70
GOMPHONEMA VENTRICOSUM	10.80		5.40
EPITHEMIA SOREX	64.80	86.40	75.60
EPITHEMIA ZEBRA		5.40	2.70
HANTZSCHIA AMPHIOXYS	10.80	10.80	10.80
NITZSCHIA ACICULARIS	21.60		10.80
NITZSCHIA CAPITELLATA	172.80	75.60	124.20
NITZSCHIA DISSIPATA	10.80		5.40
NITZSCHIA GRACILIS	10.80		5.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LINEARIS		10.80	5.40
NITZSCHIA MICROCEPHALA	21.60	5.40	13.50
SURIRELLA OVATA	10.80		5.40
SURIRELLA OVALIS		10.80	5.40
GROUP MEAN			815.40
EUGLENOPHYTA			
EUGLENA SPP	21.60	37.80	29.70
GROUP MEAN			29.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	151.20	86.40	118.80
GROUP MEAN			118.80

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	21.60	16.20	18.90
ANABAENA SPP	21.60	21.60	21.60
CALOTHRIX SPP	10.80		5.40
GROUP MEAN			45.90
CHLOROPHYTA			
CHLOROPHYTA I	75.60	43.20	59.40
GROUP MEAN			59.40
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	54.00	21.60	37.80
STEPHANODISCUS ASTRAEA	32.40	10.80	21.60
FRAGILARIA LEPTOSTAURON	21.60	10.80	16.20
COCCONEIS PEDICULUS	54.00	48.60	51.30
DIPLONEIS ELLIPTICA	10.80		5.40
NAVICULA CRYPTOCEPHALA	97.20	10.80	54.00
NAVICULA MUTICA	21.60		10.80
NAVICULA SALINARUM VAR. INTERMEDIA	10.80		5.40
NAVICULA TRIPUNCTATA	43.20	5.40	24.30
NAVICULA VIRIDULA	21.60	21.60	21.60

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS AMPHISBAENA	10.80		5.40
PINNULARIA BOREALIS		5.40	2.70
AMPHORA OVALIS		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS		5.40	2.70
CYMBELLA AFFINIS	21.60	16.20	18.90
CYMBELLA SINUATA		16.20	8.10
CYMBELLA VENTRICOSA	21.60		10.80
GOMPHONEMA INTRICATUM	21.60		10.80
GOMPHONEMA OLIVACEUM	270.00	86.40	178.20
GOMPHONEMA PARVULUM	10.80		5.40
EPITHEMIA SOREX	64.80	97.20	81.00
HANTZSCHIA AMPHIOXYS	10.80	27.00	18.90
NITZSCHIA CAPITELLATA	129.60	27.00	78.30
NITZSCHIA FRUSTULUM		5.40	2.70
NITZSCHIA HOLSATICA	32.40		16.20
NITZSCHIA LINEARIS		5.40	2.70
NITZSCHIA MICROCEPHALA	10.80		5.40
CYMATOPLEURA SOLEA	.01		.01
SURIRELLA OVATA		10.80	5.40
GROUP MEAN			704.71

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	86.40	37.80	62.10
GROUP MEAN			62.10
CRYPTOPHYTA			
CRYPTOMONAS EROSA	21.60		10.80
GROUP MEAN			10.80
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	86.40	54.00	70.20
GROUP MEAN			70.20

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	5.40	16.20	10.80
ANABAENA SPP	5.40		2.70
GROUP MEAN			13.50
CHLOROPHYTA			
STIGEOCLONIUM SPP		.02	.01
CLADOPHORA SPP	.01		.01
CHLOROPHYTA I	70.20	27.00	48.60
GROUP MEAN			48.62
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	21.60	16.20	18.90
STEPHANODISCUS ASTRAEA	16.20	27.00	21.60
STEPHANODISCUS BINDERANUS		.06	.03
DIATOMA VULGARE	5.40		2.70
FRAGILARIA LEPTOSTAURON	81.00		40.50
COCCONEIS PEDICULUS	86.40	97.20	91.80
NAVICULA CRYPTOCEPHALA	21.60	54.00	37.80
NAVICULA LANCEOLATA		5.40	2.70
NAVICULA PELLICULOSA	5.40		2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PUPULA	5.40		2.70
NAVICULA SALINARUM VAR. INTERMEDIA	5.40	5.40	5.40
NAVICULA TRIPUNCTATA	5.40		2.70
NAVICULA VIRIDULA	5.40	32.40	18.90
AMPHORA OVALIS VAR. PEDICULUS	10.80	10.80	10.80
CYMBELLA AFFINIS		5.40	2.70
CYMBELLA SINUATA		16.20	8.10
CYMBELLA VENTRICOSA	5.40		2.70
GOMPHONEMA OLIVACEUM	27.00	27.00	27.00
GOMPHONEMA VENTRICOSUM		5.40	2.70
EPITHEMIA SOREX	10.80	21.60	16.20
NITZSCHIA CAPITELLATA	27.00	48.60	37.80
NITZSCHIA DISSIPATA	10.80	16.20	13.50
NITZSCHIA FRUSTULUM	5.40	10.80	8.10
NITZSCHIA HOLSATICA	5.40		2.70
NITZSCHIA LATENS	21.60	10.80	16.20
GROUP MEAN			396.93
EUGLENOPHYTA			
EUGLENA SPP	264.60	232.20	248.40
GROUP MEAN			248.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	64.80	81.00	72.90
GROUP MEAN			72.90

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP		5.40	2.70
CALOTHRIX SPP		21.60	10.80
GROUP MEAN			13.50
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	5.40		2.70
CHLOROPHYTA I	27.00	59.40	43.20
GROUP MEAN			45.90
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	10.80	54.00	32.40
STEPHANODISCUS ASTRAEA		16.20	8.10
FRAGILARIA PINNATA		27.00	13.50
COCCONEIS PEDICULUS	91.80	91.80	91.80
ACHNANTHES LANCEOLATA	5.40		2.70
ACHNANTHES MINUTISSIMA	5.40	5.40	5.40
AMPHICONEIS SPHAEROPHORA	5.40		2.70
NAVICULA CRYPTOCEPHALA	37.80	54.00	45.90
NAVICULA PELLICULOSA	5.40		2.70
NAVICULA PUPULA	5.40		2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM VAR. INTERMEDIA	5.40	10.80	8.10
NAVICULA TRIPUNCTATA	10.80		5.40
NAVICULA VIRIDULA	5.40	16.20	10.80
AMPHORA OVALIS VAR. PEDICULUS		5.40	2.70
CYMBELLA AFFINIS	5.40		2.70
CYMBELLA SINUATA		10.80	5.40
CYMBELLA VENTRICOSA	10.80		5.40
GOMPHONEMA INTRICATUM	5.40		2.70
GOMPHONEMA OLIVACEUM	37.80	21.60	29.70
GOMPHONEMA VENTRICOSUM		10.80	5.40
EPITHEMIA SOREX		37.80	18.90
NITZSCHIA ACICULARIS		10.80	5.40
NITZSCHIA CAPITELLATA	48.60	37.80	43.20
NITZSCHIA DISSIPATA	10.80		5.40
NITZSCHIA FRUSTULUM	16.20		8.10
NITZSCHIA HOLSATICA	5.40		2.70
NITZSCHIA LATENS	10.80	32.40	21.60
NITZSCHIA VERMICULARIS		.01	.01
SURIRELLA OVATA	16.20		8.10
GROUP MEAN			399.61

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	270.00	270.00	270.00
GROUP MEAN			270.00
CRYPTOPHYTA			
CRYPTOMONAS EROSA	10.80	16.20	13.50
GROUP MEAN			13.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	97.20	75.60
GROUP MEAN			75.60

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXEN	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		324.00	162.00
OSCILLATORIA TENUIS		5.40	2.70
CALOTHRIX SPP		16.20	8.10
GROUP MEAN			172.80
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	5.40		2.70
CHLOROPHYTA I	27.00	27.00	27.00
GROUP MEAN			29.70
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA		32.40	16.20
STEPHANODISCUS ASTRAEA	16.20	10.80	13.50
FRAGILARIA VAUCHERIAE	10.80	5.40	8.10
COCCONEIS PEDICULUS	54.00	124.20	89.10
ACHNANTHES LANCEOLATA		10.80	5.40
ACHNANTHES MINUTISSIMA	5.40		2.70
NAVICULA CRYPTOCEPHALA	43.20	54.00	48.60
NAVICULA SALINARUM VAR. INTERMEDIA	10.80	10.80	10.80
NAVICULA TRIPUNCTATA		5.40	2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA VIRIDULA		10.80	5.40
AMPHORA OVALIS VAR. PEDICULUS		5.40	2.70
CYMBELLA AFFINIS	5.40		2.70
CYMBELLA SINUATA	5.40	10.80	8.10
CYMBELLA VENTRICOSA	5.40	5.40	5.40
GOMPHONEMA OLIVACEUM	27.00	10.80	18.90
EPITHEMIA SOREX	10.80	16.20	13.50
HANTZSCHIA AMPHIOXYS	10.80		5.40
NITZSCHIA ACICULARIS		27.00	13.50
NITZSCHIA APICULATA		5.40	2.70
NITZSCHIA CAPITELLATA	16.20	54.00	35.10
NITZSCHIA DISSIPATA	5.40	21.60	13.50
NITZSCHIA FRUSTULUM	21.60	5.40	13.50
NITZSCHIA LATENS	32.40	16.20	24.30
NITZSCHIA MICROCEPHALA	10.80		5.40
SURIRELLA OVATA	5.40		2.70
GROUP MEAN			369.90
EUGLENOPHYTA			
EUGLENA SPP	205.20	264.60	234.90
GROUP MEAN			234.90

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.40	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	54.00	54.00
GROUP MEAN			54.00

Appendix H-4-2[3] (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXLN	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	86.40		43.20
OSCILLATORIA TENUIS		5.40	2.70
CALOTHRIX SPP		5.40	2.70
GROUP MEAN			48.60
CHLOROPHYTA			
CHLOROPHYTA I	54.00	43.20	48.60
GROUP MEAN			48.60
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	43.20	59.40	51.30
STEPHANODISCUS ASTRAEA	16.20	16.20	16.20
ACTINOCYCLUS ROTHII	5.40		2.70
DIATOMA VULGARE		5.40	2.70
FRAGILARIA LEPTOSTAURON	43.20	37.80	40.50
FRAGILARIA PINNATA		37.80	18.90
SYNEDRA AMPHICEPHALA		5.40	2.70
SYNEDRA ULNA	16.20		8.10
COCCONEIS PEDICULUS	81.00	54.00	67.50
ACHNANTHES LANCEOLATA	5.40		2.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES MINUTISSIMA	10.80		5.40
NAVICULA CRYPTOCEPHALA	48.60	32.40	40.50
NAVICULA PELLICULOSA	5.40	5.40	5.40
NAVICULA SALINARUM VAR. INTERMEDIA	16.20	5.40	10.80
NAVICULA TRIPUNCTATA	43.20		21.60
NAVICULA VIRIDULA	21.60	27.00	24.30
CALONEIS BACILLUM		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS	16.20		8.10
CYMBELLA AFFINIS	5.40	10.80	8.10
CYMBELLA SINUATA	5.40	5.40	5.40
CYMBELLA VENTRICOSA	5.40	5.40	5.40
GOMPHONEMA OLIVACEUM	27.00	48.60	37.80
EPITHEMIA SOREX	48.60	21.60	35.10
NITZSCHIA CAPITELLATA	59.40	48.60	54.00
NITZSCHIA DISSIPATA	10.80	16.20	13.50
NITZSCHIA FRUSTULUM	21.60	16.20	18.90
NITZSCHIA LATENS	5.40	16.20	10.80
SURIRELLA OVATA		16.20	8.10
GROUP MEAN			529.20

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	64.80	37.80	51.30
GROUP MEAN			51.30
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	64.80	48.60	56.70
GROUP MEAN			56.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS		16.20	8.10
CALOTHRIX SPP	10.80	16.20	13.50
GROUP MEAN			21.60
CHLOROPHYTA			
STIGEOCLONIUM SPP	10.80		5.40
PEDIASTRUM SIMPLEX	.03		.02
CHLOROPHYTA I	70.20	54.00	62.10
GROUP MEAN			67.52
CHRYSOPHYTA			
DIDBECA LACUSTRIS		216.00	108.00
CYCLOTELLA MENEGHINIANA	48.60	32.40	40.50
STEPHANODISCUS ASTRAEA		21.60	10.80
DIATOMA VULGARE	5.40	16.20	10.80
FRAGILARIA LEPTOSTAURON	5.40	5.40	5.40
FRAGILARIA PINNATA		5.40	2.70
FRAGILARIA VAUCHERIAE		5.40	2.70
SYNEDRA ULNA	10.80		5.40
CUCCUNEIS PEDICULUS	48.60	75.60	62.10

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
ACHNANTHES LANCEOLATA		5.40	2.70
ACHNANTHES MINUTISSIMA	16.20	16.20	16.20
NAVICULA CRYPTOCEPHALA	43.20	21.60	32.40
NAVICULA LANCEOLATA	5.40		2.70
NAVICULA SALINARUM VAR. INTERMEDIA	5.40		2.70
NAVICULA TRIPUNCTATA	16.20	5.40	10.80
NAVICULA VIRIDULA	5.40	37.80	21.60
AMPHORA OVALIS VAR. PEDICULUS	5.40	27.00	16.20
CYMBELLA AFFINIS	21.60	10.80	16.20
CYMBELLA SINUATA	27.00	5.40	16.20
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA OLIVACEUM	43.20	32.40	37.80
EPITHEMIA SOREX	64.80	32.40	48.60
HANTZSCHIA AMPHIOXYS		10.80	5.40
NITZSCHIA ACICULARIS	10.80		5.40
NITZSCHIA CAPITELLATA	75.60	70.20	72.90
NITZSCHIA FRUSTULUM	27.00	43.20	35.10
NITZSCHIA HOLSATICA	10.80		5.40
NITZSCHIA LATENS	16.20	16.20	16.20
NITZSCHIA PALEA	5.40		2.70

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
SURIRELLA OVATA		5.40	2.70
GROUP MEAN			623.70
EUGLENOPHYTA			
EUGLENA SPP	37.80	32.40	35.10
GROUP MEAN			35.10
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	5.40	5.40
GROUP MEAN			5.40
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	37.80	32.40
GROUP MEAN			32.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP	5.40		2.70
GROUP MEAN			2.70
CHLOROPHYTA			
STIGEOCLONIUM SPP	.01	.03	.02
CHLOROPHYTA I	81.00	37.80	59.40
GROUP MEAN			59.42
CHRYSOPHYTA			
THALASSIOSIRA FLUVIATILIS		5.40	2.70
CYCLOTELLA MENEGHINIANA	32.40	54.00	43.20
STEPHANODISCUS ASTRAEA		10.80	5.40
DIATOMA VULGARE	5.40	10.80	8.10
FRAGILARIA CONSTRUENS	10.80		5.40
FRAGILARIA LEPTOSTAURON		27.00	13.50
FRAGILARIA PINNATA		37.80	18.90
FRAGILARIA VAUCHERIAE	10.80		5.40
CYCLOTELLA PEDICULUS	91.80		45.90
ACHNANTHES LANCEOLATA	5.40	16.20	10.80
NAVICULA CRYPTOCEPHALA	48.60	48.60	48.60

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA MUTICA	5.40		2.70
NAVICULA PELLICULOSA		32.40	16.20
NAVICULA SALINARUM VAR. INTERMEDIA	5.40	16.20	10.80
NAVICULA TRIPUNCTATA	27.00	10.80	18.90
NAVICULA VIRIDULA	5.40	27.00	16.20
CALONEIS AMPHISBAENA	.01		.01
PINNULARIA BOREALIS	5.40	5.40	5.40
AMPHORA OVALIS VAR. PEDICULUS	27.00	5.40	16.20
CYMBELLA AFFINIS		21.60	10.80
CYMBELLA SINUATA		16.20	8.10
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA INTRICATUM	5.40		2.70
GOMPHONEMA OLIVACEUM	16.20	64.80	40.50
EPITHEMIA SOREX	48.60	10.80	29.70
RHOPALODIA GIBBA	5.40		2.70
HANTZSCHIA AMPHIOXYS		10.80	5.40
NITZSCHIA ACICULARIS	5.40	16.20	10.80
NITZSCHIA CAPITELLATA	64.80	64.80	64.80
NITZSCHIA DISSIPATA		16.20	8.10
NITZSCHIA FRUSTULUM	10.80	54.00	32.40

Appendix H-4-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA GRACILIS	5.40	10.80	8.10
NITZSCHIA LATENS	21.60	21.60	21.60
NITZSCHIA MICROCEPHALA		10.80	5.40
CYMATOPLEURA SOLEA		.01	.01
GROUP MEAN			550.81
EUGLENOPHYTA			
EUGLENA SPP		32.40	16.20
GROUP MEAN			16.20
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	64.80	16.20	40.50
GROUP MEAN			40.50

APPENDIX H-5-1

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.

COLLECTION METHOD - SUBMERSIBLE PUMP

CYANOPHYTA

- CHROOCOCCUS DISPERSUS
- MERISMOPEDIA GLAUCA
- OSCILLATORIA TENUIS
- OSCILLATORIA SPP
- ANABAENA SPP
- NODULARIA SPUMIGENA
- CALOTHRIX SPP

CHLOROPHYTA

- CHLAMYDOMONAS GLOBOSA
- STIGEOCLONIUM SPP
- CLADOPHORA SPP
- ANKISTRODESMUS FALCATUS
- SCENEDESMUS QUADRICAUDA
- MOUGEOTIA SPP
- SPIROGYRA SPP
- ZYGNEMA SPP
- CHLOROPHYTA I

CHRYSOPHYTA

- CHRYSIDIASTRUM OCELLATUM
- CYCLOTELLA MENEGHINIANA
- STEPHANODISCUS ASTRAEA
- STEPHANODISCUS BINDERANUS

2.4.2.1099

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

DIATOMA VULGARE
MERIDION CIRCULARE
FRAGILARIA CONSTRUENS
FRAGILARIA LEPTOSTAURON
FRAGILARIA PINNATA
FRAGILARIA VAUCHERIAE
SYNEDRA AMPHICEPHALA
SYNEDRA PULCHELLA
SYNEDRA TENERA
SYNEDRA ULNA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
MASTOGLOIA ELLIPTICA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
STAURONEIS SMITHII
STAURONEIS SPP
ANOMOEONEIS SPHAEROPHORA

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

NEIDIUM SPP
NAVICULA ARVENSIS
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA GREGARIA
NAVICULA MINIMA
NAVICULA MUTICA
NAVICULA PELLICULOSA
NAVICULA PROTRACTA
NAVICULA RADIOSA
NAVICULA SALINARUM
NAVICULA SALINARUM VAR. INTERMEDIA
NAVICULA SUBHAMULATA
NAVICULA TRIPUNCTATA
NAVICULA VIRIDULA
NAVICULA SPP
NAVICULA SP 1
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA SUBCALVATUM
GOMPHONEMA VENTRICOSUM

Appendix H-5-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

AMPHIPRORA ALATA
EPITHEMIA SOREX
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FRUSTULUM
NITZSCHIA GRACILIS
NITZSCHIA HOLSATICA
NITZSCHIA HUNGARICA
NITZSCHIA IGNORATA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA MICROCEPHALA
NITZSCHIA PALEA

COLLECTION METHOD - SUBMERSIBLE PUMP

CHRYSOPHYTA

NITZSCHIA REVERSA
CYMATOPLEURA SOLEA
SURIRELLA ANGUSTATA
SURIRELLA OVATA
SURIRELLA OVALIS
SURIRELLA STRIATULA

EUGLENOPHYTA

EUGLENA OXYURIS
EUGLENA PROXIMA
EUGLENA SPP
TRACHELOMONAS SPP

CRYPTOPHYTA

CRYPTOMONAS EROSA

MICROFLAGELLATES

FLAGELLATE UNIDENTIFIED

APPENDIX H-5-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-5-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PHYTOPLANKTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.[1]
(Data are expressed as cells/ml)
COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = I

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP		5.40	2.70
GROUP MEAN			2.70
CHLOROPHYTA			
STIGEOCLONIUM SPP		.54	.27
CLADOPHORA SPP	.14		.07
CHLOROPHYTA I	27.00	18.90	22.95
GROUP MEAN			23.29
CHRYSOPHYTA			
MERIDION CIRCULARE		8.10	4.05
COCCONEIS PLACENTULA	2.70		1.35
ACHNANTHES LANCEOLATA	32.40	32.40	32.40
ACHNANTHES MINUTISSIMA	148.50	67.50	108.00
GYROSIGMA ACUMINATUM	2.70	2.70	2.70
STAUROPEIS SMITHII	2.70		1.35
STAUROPEIS SPP	5.40		2.70
NAVICULA ARVENSIS	16.20		8.10
NAVICULA CRYPTOCEPHALA	40.50	40.50	40.50
NAVICULA MUTICA		5.40	2.70

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	18.90	27.00	22.95
NAVICULA SUBHAMULATA		5.40	2.70
NAVICULA SP 1	10.80		5.40
NAVICULA SP 2		10.80	5.40
CALONEIS BACILLUM	5.40	2.70	4.05
PINNULARIA BOREALIS		2.70	1.35
AMPHORA PONTANA		10.80	5.40
AMPHORA OVALIS	2.70	2.70	2.70
AMPHORA OVALIS VAR. PEDICULUS	2.70		1.35
AMPHORA SUBMONTANA	8.10		4.05
CYMBELLA AFFINIS	8.10		4.05
CYMBELLA VENTRICOSA		2.70	1.35
GOMPHONEMA INTRICATUM	35.10	27.00	31.05
GOMPHONEMA OLIVACEUM	2.70	10.80	6.75
CYLINDROTHECA GRACILIS	2.70	5.40	4.05
NITZSCHIA ACICULARIS	148.50	78.30	113.40
NITZSCHIA CAPITELLATA	59.40	67.50	63.45
NITZSCHIA DISSIPATA	2.70		1.35
NITZSCHIA FRUSTULUM	32.40	32.40	32.40
NITZSCHIA GRACILIS	16.20	10.80	13.50

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LATENS	27.00	18.90	22.95
NITZSCHIA LINEARIS	54.00	32.40	43.20
SURIRELLA OVATA	10.80	8.10	9.45
GROUP MEAN			606.15
EUGLENOPHYTA			
EUGLENA PROXIMA	5.40		2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	67.50	27.00	47.25
GROUP MEAN			47.25

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA 1	27.00	21.60	24.30
GROUP MEAN			24.30
CHRYSOPHYTA			
FRAGILARIA VAUCHERIAE	13.50	5.40	9.45
SYNEDRA AMPHICEPHALA	45.90	62.10	54.00
ACHNANTHES LANCEOLATA	35.10	29.70	32.40
ACHNANTHES MINUTISSIMA	167.40	132.30	149.85
NAVICULA ARVENSIS	2.70		1.35
NAVICULA CRYPTOCEPHALA	70.20	51.30	60.75
NAVICULA GREGARIA	2.70		1.35
NAVICULA PELLICULOSA	16.20		8.10
NAVICULA SP 1	2.70		1.35
NAVICULA SP 2	2.70	2.70	2.70
CALONEIS BACILLUM		2.70	1.35
PINNULARIA BREBISSONII	2.70	2.70	2.70
AMPHORA OVALIS	5.40		2.70
CYMBELLA AFFINIS	2.70	8.10	5.40
GOMPHONEMA INTRICATUM		2.70	1.35
GOMPHONEMA OLIVACEUM		5.40	2.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA SUBCALVATUM	8.10		4.05
NITZSCHIA CAPITELLATA	24.30	24.30	24.30
NITZSCHIA DISSIPATA	2.70		1.35
NITZSCHIA FRUSTULUM	13.50	16.20	14.85
NITZSCHIA HOLSATICA	16.20		8.10
NITZSCHIA LATENS	10.80	5.40	8.10
NITZSCHIA LINEARIS	32.40	24.30	28.35
NITZSCHIA PALEA		13.50	6.75
SURIRELLA OVATA	2.70	10.80	6.75
GROUP MEAN			440.10
EUGLENOPHYTA			
EUGLENA SPP	13.50	2.70	8.10
GROUP MEAN			8.10
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	67.50	74.25
GROUP MEAN			74.25

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXLN	REP A	REP B	MEAN
CHLOROPHYTA			
CHLOROPHYTA I	21.60	13.50	17.55
GROUP MEAN			17.55
CHRYSOPHYTA			
ACHNANTHES LANCEOLATA	18.90	8.10	13.50
ACHNANTHES MINUTISSIMA	56.70	59.40	58.05
ANOMOEONEIS SPHAEROPHORA	91.80	89.10	90.45
NAVICULA ARVENSIS	16.20	24.30	20.25
NAVICULA CRYPTOCEPHALA	129.60	145.80	137.70
NAVICULA MUTICA		2.70	1.35
NAVICULA PELLICULOSA	13.50	10.80	12.15
NAVICULA SP 1	8.10	13.50	10.80
NAVICULA SP 2	70.20	64.80	67.50
CALONEIS BACILLUM	10.80	13.50	12.15
PINNULARIA BREBISSONII	13.50	8.10	10.80
AMPHORA MONTANA		5.40	2.70
AMPHORA OVALIS	10.80		5.40
AMPHORA SUBMONTANA	16.20		8.10
CYMBELLA AFFINIS		5.40	2.70
GOMPHONEMA INTRICATUM	2.70		1.35

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA OLIVACEUM		5.40	2.70
GOMPHONEMA SUBCALVATUM	2.70	2.70	2.70
CYLINDROTHECA GRACILIS	5.40	16.20	10.80
NITZSCHIA ACICULARIS	2.70		1.35
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	118.80	99.90	109.35
NITZSCHIA DENTICULA	5.40		2.70
NITZSCHIA DISSIPATA		5.40	2.70
NITZSCHIA FRUSTULUM	37.80	32.40	35.10
NITZSCHIA GRACILIS	10.80		5.40
NITZSCHIA LATENS	59.40	35.10	47.25
NITZSCHIA LINEARIS	70.20	35.10	52.65
NITZSCHIA MICROCEPHALA		8.10	4.05
SURIRELLA OVATA	45.90	21.60	33.75
SURIRELLA OVALIS	5.40	2.70	4.05
GROUP MEAN			770.85
EUGLENOPHYTA			
EUGLENA SPP	99.90	83.70	91.80
GROUP MEAN			91.80

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA		5.40	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	64.80	40.50	52.65
GROUP MEAN			52.65

2.4.2.1111

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	21.60		10.80
OSCILLATORIA SPP		2.70	1.35
GROUP MEAN			12.15
CHLOROPHYTA			
STIGEOCLONIUM SPP	.54		.27
SPIROGYRA SPP	1.60		.80
ZYGNEMA SPP	2.54	8.10	5.32
CHLOROPHYTA I	18.90	18.90	18.90
GROUP MEAN			25.29
CHRYSOPHYTA			
MERIDION CIRCULARE		2.70	1.35
FRAGILARIA LEPTOSTAURON		5.40	2.70
SYNEDRA AMPHICEPHALA	5.40		2.70
ACHNANTHES LANCEOLATA	16.20	18.90	17.55
ACHNANTHES MINUTISSIMA	78.30	118.80	98.55
GYROSIGMA ACUMINATUM		2.70	1.35
ANOMOEONEIS SPHAEROPHORA	5.40	2.70	4.05
NAVICULA ARVENSIS	13.50	35.10	24.30

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA CRYPTOCEPHALA	653.40	796.50	724.95
NAVICULA MINIMA	2.70		1.35
NAVICULA PELLICULOSA	10.80	35.10	22.95
NAVICULA VIRIDULA	13.50	18.90	16.20
NAVICULA SP 1	91.80	35.10	63.45
NAVICULA SP 2	35.10	59.40	47.25
CALONEIS BACILLUM	2.70	10.80	6.75
PINNULARIA BREBISSONII	5.40	2.70	4.05
PINNULARIA VIRIDIS	2.70		1.35
AMPHORA OVALIS	18.90	21.60	20.25
CYMBELLA AFFINIS	2.70	16.20	9.45
CYMBELLA VENTRICOSA		2.70	1.35
GOMPHONEMA INTRICATUM	10.80	8.10	9.45
GOMPHONEMA SUBCALVATUM		2.70	1.35
EPITHEMIA SOREX		10.80	5.40
CYLINDROTHECA GRACILIS	5.40		2.70
NITZSCHIA ACICULARIS	43.20	51.30	47.25
NITZSCHIA APICULATA	2.70		1.35
NITZSCHIA CAPITELLATA	43.20	78.30	60.75
NITZSCHIA DENTICULA	78.30	124.20	101.25

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA DISSIPATA		5.40	2.70
NITZSCHIA FRUSTULUM	45.90	64.80	55.35
NITZSCHIA HOLSATICA		5.40	2.70
NITZSCHIA LATENS	37.80	32.40	35.10
NITZSCHIA LINEARIS	37.80	35.10	36.45
NITZSCHIA MICROCEPHALA	10.80	10.80	10.80
NITZSCHIA PALEA	10.80		5.40
SURIRELLA OVATA		2.70	1.35
GROUP MEAN			1451.25
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	40.50	16.20	28.35
GROUP MEAN			28.35

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	2.70		1.35
GROUP MEAN			1.35
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	2.70	2.70	2.70
ANKISTRODESMUS FALCATUS	5.40		2.70
MOUGEOTIA SPP	5.40		2.70
CHLOROPHYTA I	13.50	18.90	16.20
GROUP MEAN			24.30
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	10.80		5.40
SYNEDRA AMPHICEPHALA	5.40	5.40	5.40
COCCONEIS PEDICULUS	2.70	10.80	6.75
ACHNANTHES LANCEOLATA	32.40	5.40	18.90
ACHNANTHES MINUTISSIMA		8.10	4.05
RHOICOSPHENIA CURVATA		2.70	1.35
PLEUROSIGMA DELICATULUM	8.10	13.50	10.80
NAVICULA ARVENSIS		2.70	1.35
NAVICULA CRYPTOCEPHALA	5.40		2.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	16.20	5.40	10.80
NAVICULA RADIOSA	5.40		2.70
NAVICULA TRIPUNCTATA	2.70		1.35
AMPHIPRORA ALATA		2.70	1.35
NITZSCHIA ACICULARIS	13.50	10.80	12.15
NITZSCHIA CAPITELLATA	13.50	13.50	13.50
NITZSCHIA DENTICULA		2.70	1.35
NITZSCHIA FRUSTULUM	2.70	5.40	4.05
NITZSCHIA HOLSATICA	5.40	2.70	4.05
NITZSCHIA LATENS	5.40	2.70	4.05
NITZSCHIA MICROCEPHALA	2.70		1.35
SURIRELLA OVATA	2.70		1.35
GROUP MEAN			114.75
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40		2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	35.10	58.05
GROUP MEAN			58.05

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS		43.20	21.60
OSCILLATORIA SPP	10.80	5.40	8.10
GROUP MEAN			29.70
CHLOROPHYTA			
SPIROGYRA SPP	.88		.44
CHLOROPHYTA I	43.20	81.00	62.10
GROUP MEAN			62.54
CHRYSOPHYTA			
SYNEDRA AMPHICEPHALA	10.80	10.80	10.80
ACHNANTHES LANCEOLATA	43.20	59.40	51.30
ACHNANTHES MINUTISSIMA	4692.60	4428.00	4560.30
GYROSIGMA ACUMINATUM		5.40	2.70
NAVICULA ARVENSIS	21.60	16.20	18.90
NAVICULA CRYPTOCEPHALA	885.60	594.00	739.80
NAVICULA PELLICULOSA	75.60	54.00	64.80
NAVICULA VIRIDULA	43.20	16.20	29.70
NAVICULA SP 1	27.00	16.20	21.60
NAVICULA SP 2	178.20	162.00	170.10

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS BACILLUM	37.80	16.20	27.00
PINNULARIA BREBISSONII		10.80	5.40
AMPHORA OVALIS	16.20	43.20	29.70
AMPHORA SUBMONTANA	16.20		8.10
CYMBELLA AFFINIS	10.80	10.80	10.80
CYMBELLA SINUATA		5.40	2.70
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA INTRICATUM	16.20	37.80	27.00
GOMPHONEMA OLIVACEUM	27.00	16.20	21.60
GOMPHONEMA SUBCALVATUM	10.80		5.40
EPITHEMIA SOREX		5.40	2.70
RHOPALODIA GIBBA	10.80	10.80	10.80
CYLINDROTHECA GRACILIS	10.80		5.40
NITZSCHIA ACICULARIS	32.40	21.60	27.00
NITZSCHIA APICULATA		10.80	5.40
NITZSCHIA CAPITELLATA	129.60	108.00	118.80
NITZSCHIA DENTICULA	194.40	216.00	205.20
NITZSCHIA FRUSTULUM	108.00	135.00	121.50
NITZSCHIA HOLSATICA	37.80		18.90
NITZSCHIA LATENS	113.40	113.40	113.40

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LINEARIS	64.80		32.40
NITZSCHIA MICROCEPHALA	5.40	10.80	8.10
SURIRELLA OVATA	16.20	21.60	18.90
GROUP MEAN			6501.60
EUGLENOPHYTA			
EUGLENA SPP	5.40		2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	124.20	135.00	129.60
GROUP MEAN			129.60

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	21.60	10.80	16.20
GROUP MEAN			16.20
CHLOROPHYTA			
CHLOROPHYTA I	27.00	21.60	24.30
GROUP MEAN			24.30
CHRYSOPHYTA			
CHRYSIDIASTRUM UCELLATUM	302.40	259.20	280.80
MERIDION CIRCULARE	2.70		1.35
ACHNANTHES LANCEOLATA	48.60	64.80	56.70
ACHNANTHES MINUTISSIMA	283.50	372.60	328.05
NAVICULA ARVENSIS	5.40	16.20	10.80
NAVICULA CRYPTOCEPHALA	16.20	27.00	21.60
NAVICULA PELLICULOSA	48.60	105.30	76.95
GOMPHONEMA INTRICATUM	5.40	5.40	5.40
NITZSCHIA FRUSTULUM	10.80	8.10	9.45
GROUP MEAN			791.10

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	126.90	108.00	117.45
GROUP MEAN			117.45

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
MERISMOPEDIA GLAUCA	86.40		43.20
OSCILLATORIA SPP	5.40	10.80	8.10
GROUP MEAN			51.30
CHLOROPHYTA			
CHLOROPHYTA I	135.00	108.00	121.50
GROUP MEAN			121.50
CHRYSOPHYTA			
MERIDION CIRCULARE	16.20		8.10
SYNEDRA AMPHICEPHALA		10.80	5.40
ACHNANTHES LANCEOLATA	48.60	32.40	40.50
ACHNANTHES MINUTISSIMA	1161.00	1080.00	1120.50
GYROSIGMA ACUMINATUM	5.40		2.70
NAVICULA ARVENSIS	43.20	43.20	43.20
NAVICULA CRYPTOCEPHALA	685.80	367.20	526.50
NAVICULA MINIMA	10.80		5.40
NAVICULA PELLICULOSA	64.80	86.40	75.60
NAVICULA TRIPUNCTATA	32.40		16.20
NAVICULA VIRIDULA	37.80		18.90

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SPP		32.40	16.20
NAVICULA SP 2	210.60	10.80	110.70
CALONEIS BACILLUM	43.20	21.60	32.40
CALONEIS VENTRICOSA	5.40		2.70
AMPHORA OVALIS	48.60	10.80	29.70
AMPHORA OVALIS VAR. PEDICULUS	5.40		2.70
AMPHORA SUBMONTANA	32.40	10.80	21.60
CYMBELLA AFFINIS	16.20		8.10
GOMPHONEMA INTRICATUM	5.40	21.60	13.50
GOMPHONEMA OLIVACEUM	10.80		5.40
GOMPHONEMA SUBCALVATUM	5.40	10.80	8.10
RHOPALODIA GIBBA	10.80	10.80	10.80
CYLINDROTHECA GRACILIS	5.40		2.70
NITZSCHIA ACICULARIS	27.00		13.50
NITZSCHIA APICULATA	5.40		2.70
NITZSCHIA CAPITELLATA	194.40	54.00	124.20
NITZSCHIA DENTICULA	280.80	64.80	172.80
NITZSCHIA FRUSTULUM	226.80	97.20	162.00
NITZSCHIA HOLSATICA	21.60		10.80
NITZSCHIA LATENS	172.80	194.40	183.60

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA LINEARIS	75.60		37.80
NITZSCHIA MICROCEPHALA	43.20	32.40	37.80
SURIRELLA OVATA	37.80	10.80	24.30
SURIRELLA OVALIS	10.80		5.40
GROUP MEAN			2902.50
EUGLENOPHYTA			
TRACHELOMONAS SPP		43.20	21.60
GROUP MEAN			21.60
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	97.20	86.40	91.80
GROUP MEAN			91.80

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
SPIROGYRA SPP		8.10	4.05
CHLOROPHYTA I	10.80	18.90	14.85
GROUP MEAN			18.90
CHRYSOPHYTA			
FRAGILARIA VAUCHERIAE	2.70	13.50	8.10
COCCONEIS PEDICULUS		2.70	1.35
ACHNANTHES LANCEOLATA	35.10	89.10	62.10
ACHNANTHES MINUTISSIMA	621.00	1377.00	999.00
GYROSIGMA ACUMINATUM		2.70	1.35
NAVICULA ARVENSIS	5.40	5.40	5.40
NAVICULA CRYPTOCEPHALA	45.90	102.60	74.25
NAVICULA PELLICULOSA	48.60	86.40	67.50
NAVICULA VIRIDULA		5.40	2.70
NAVICULA SP 2	8.10	13.50	10.80
AMPHORA OVALIS	2.70	8.10	5.40
AMPHORA SP 1		18.90	9.45
CYMBELLA AFFINIS	5.40	24.30	14.85
CYMBELLA MICROCEPHALA	2.70	2.70	2.70
GOMPHONEMA INTRICATUM	2.70	8.10	5.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA PARVULUM		2.70	1.35
RHOPALODIA GIBBA	2.70		1.35
NITZSCHIA ACICULARIS	5.40	5.40	5.40
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	18.90	35.10	27.00
NITZSCHIA FRUSTULUM	27.00	37.80	32.40
NITZSCHIA HOLSATICA	18.90	62.10	40.50
NITZSCHIA LINEARIS		5.40	2.70
NITZSCHIA MICROCEPHALA	5.40	8.10	6.75
SURIRELLA OVATA	2.70	2.70	2.70
GROUP MEAN			1391.85
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	2.70	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	75.60	86.40	81.00
GROUP MEAN			81.00

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP		5.40	2.70
GROUP MEAN			2.70
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA		2.70	1.35
CHLOROPHYTA I	2.70		1.35
GROUP MEAN			2.70
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA		13.50	6.75
SYNEDRA ULNA		10.80	5.40
ACHNANTHES LANCEOLATA	2.70	48.60	25.65
ACHNANTHES MINUTISSIMA	27.00		13.50
NAVICULA CRYPTOCEPHALA	8.10	10.80	9.45
NAVICULA PELLICULOSA	8.10	2.70	5.40
GOMPHONEMA OLIVACEUM		2.70	1.35
RHOPALODIA GIBBA	2.70		1.35
NITZSCHIA DENTICULA	10.80	2.70	6.75
NITZSCHIA FRUSTULUM	5.40	5.40	5.40
NITZSCHIA HULSATICA	40.50	21.60	31.05
GROUP MEAN			112.05

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	5.40	4.05
GROUP MEAN			4.05
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	37.80		18.90
GROUP MEAN			18.90

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA TENUIS	.58	.46	.52
GROUP MEAN			.52
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA	2.70	2.70	2.70
ANKISTRODESMUS FALCATUS	2.70		1.35
CHLOROPHYTA I	54.00	54.00	54.00
GROUP MEAN			58.05
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA		2.70	1.35
STEPHANODISCUS BINDERANUS	10.80	29.70	20.25
SYNEDRA AMPHICEPHALA	2.70		1.35
SYNEDRA PULCHELLA		2.70	1.35
SYNEDRA ULNA	2.70	5.40	4.05
ACHNANTHES MINUTISSIMA	5.40	8.10	6.75
PLEUROSIGMA DELICATULUM	2.70	2.70	2.70
NAVICULA CRYPTOCEPHALA		10.80	5.40
NAVICULA PELLICULOSA	13.50	8.10	10.80
NAVICULA SPP	5.40	8.10	6.75

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA VENTRICOSA	2.70		1.35
AMPHIPRORA ALATA	2.70		1.35
CYLINDROTHECA GRACILIS	2.70		1.35
NITZSCHIA ACICULARIS	18.90	37.80	28.35
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	35.10	21.60	28.35
NITZSCHIA FRUSTULUM	5.40	10.80	8.10
NITZSCHIA HOLSATICA	32.40	27.00	29.70
NITZSCHIA LINEARIS	2.70		1.35
NITZSCHIA MICROCEPHALA	2.70	10.80	6.75
NITZSCHIA REVERSA	2.70	2.70	2.70
GROUP MEAN			171.45
EUGLENOPHYTA			
EUGLENA OXYURIS		2.70	1.35
GROUP MEAN			1.35
CRYPTOPHYTA			
CRYPTOMONAS EROSA	16.20	16.20	16.20
GROUP MEAN			16.20

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	121.50	148.50	135.00
GROUP MEAN			135.00

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	5.40	10.80	8.10
NODULARIA SPUMIGENA		.60	.30
GROUP MEAN			8.40
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	32.40	32.40	32.40
SPIROGYRA SPP		.50	.25
CHLOROPHYTA I	91.80	108.00	99.90
GROUP MEAN			132.55
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	669.60	248.40	459.00
ACHNANTHES MINUTISSIMA	10.80		5.40
NAVICULA ELLIPTICA	27.00	21.60	24.30
GYROSIGMA ACUMINATUM	5.40		2.70
NAVICULA CRYPTOCEPHALA	97.20	21.60	59.40
NAVICULA PELLICULOSA	70.20	10.80	40.50
NAVICULA VIRIDULA		64.80	32.40
NAVICULA SPP	345.60		172.80
NAVICULA SP 2	10.80		5.40

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA VENTRICOSA	48.60	32.40	40.50
GOMPHONEMA INTRICATUM		10.80	5.40
GOMPHONEMA SUBCALVATUM	10.80		5.40
AMPHIPRORA ALATA		10.80	5.40
EPITHEMIA GIBBA		21.60	10.80
CYLINDROTHECA GRACILIS	124.20	86.40	105.30
NITZSCHIA ACICULARIS	27.00	21.60	24.30
NITZSCHIA APICULATA	16.20	10.80	13.50
NITZSCHIA CAPITELLATA	86.40	86.40	86.40
NITZSCHIA FRUSTULUM	75.60	108.00	91.80
NITZSCHIA GRACILIS	5.40		2.70
NITZSCHIA HULSATICA	2921.40	1728.00	2324.70
NITZSCHIA IGNERATA		10.80	5.40
NITZSCHIA LATENS	135.00	194.40	164.70
NITZSCHIA LINEARIS		10.80	5.40
NITZSCHIA MICROCEPHALA	64.80	43.20	54.00
SURIRELLA OVATA	10.80	10.80	10.80
GROUP MEAN			3758.40

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	124.20	162.00	143.10
GROUP MEAN			143.10

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	10.80	21.60	16.20
CHLOROPHYTA I	54.00	43.20	48.60
GROUP MEAN			64.80
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	626.40	761.40	693.90
SYNEDRA PULCHELLA	5.40	27.00	16.20
ACHNANTHES MINUTISSIMA	5.40		2.70
NAVICULA ELLIPTICA	5.40	37.80	21.60
GYROSIGMA ACUMINATUM	16.20		8.10
AMPHIPLEURA SPHAEROPHORA		5.40	2.70
NAVICULA CRYPTOCEPHALA	54.00	48.60	51.30
NAVICULA SALINARUM	5.40		2.70
NAVICULA VIRIDULA		59.40	29.70
NAVICULA SPP	124.20		62.10
NAVICULA SP 2	5.40	59.40	32.40
CYMBELLA VENTRICOSA	27.00	27.00	27.00
GOMPHONEMA INTRICATUM		10.80	5.40
GOMPHONEMA OLIVACEUM		5.40	2.70
AMPHIPRORA ALATA	5.40		2.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYLINDROTHECA GRACILIS	10.80	21.60	16.20
NITZSCHIA APICULATA	5.40	32.40	18.90
NITZSCHIA CAPITELLATA	37.80	43.20	40.50
NITZSCHIA FRUSTULUM	43.20	10.80	27.00
NITZSCHIA HOLSATICA	313.20	75.60	194.40
NITZSCHIA LATENS	27.00	5.40	16.20
NITZSCHIA LINEARIS	10.80	5.40	8.10
NITZSCHIA MICROCEPHALA	16.20	10.80	13.50
SURIRELLA OVATA	10.80	16.20	13.50
GROUP MEAN			1309.50
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	81.00	108.00	94.50
GROUP MEAN			94.50

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	11.60	23.20	17.40
GROUP MEAN			17.40
CHLOROPHYTA			
CLADOPHORA SPP	23.20		11.60
CHLOROPHYTA I	69.60		34.80
GROUP MEAN			46.40
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	1044.00	95.12	569.56
FRAGILARIA VAUCHERIAE		11.60	5.80
SYNEDRA PULCHELLA	58.00		29.00
SYNEDRA ULNA	23.20		11.60
MASTOGLOIA ELLIPTICA	46.40	34.80	40.60
GYROSIGMA ACUMINATUM	11.60	23.20	17.40
NAVICULA CRYPTOCEPHALA	104.40	150.80	127.60
NAVICULA MUTICA	11.60	11.60	11.60
NAVICULA PELLICULOSA		11.60	5.80
NAVICULA PROTRACTA	23.20		11.60
NAVICULA SALINARUM VAR. INTERMEDIA	46.40	11.60	29.00

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA VIRIDULA	92.80	127.60	110.20
NAVICULA SP 2	11.60	11.60	11.60
CYMBELLA AFFINIS		11.60	5.80
CYMBELLA SP 1	11.60	11.60	11.60
AMPHIPROPA ALATA	11.60	23.20	17.40
RHOPALODIA GIBBERULA		58.00	29.00
CYLINDROTHECA GRACILIS	23.20	11.60	17.40
HANTZSCHIA AMPHIOXYS		11.60	5.80
NITZSCHIA ACICULARIS		11.60	5.80
NITZSCHIA CAPITELLATA	46.40	11.60	29.00
NITZSCHIA FRUSTULUM	104.40	127.60	116.00
NITZSCHIA HOLSATICA	11.60	11.60	11.60
NITZSCHIA HUNGARICA	46.40	46.40	46.40
NITZSCHIA LATENS	11.60	11.60	11.60
SURIRELLA OVATA	127.60	220.40	174.00
SURIRELLA OVALIS	.90	.70	.80
SURIRELLA STRIATULA		.50	.25
GROUP MEAN			1463.81

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	58.00	58.00	58.00
GROUP MEAN			58.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	2.70		1.35
CALOTHRIX SPP	2.70		1.35
GROUP MEAN			2.70
CHLOROPHYTA			
STIGEOCLONIUM SPP	.10		.05
ANKISTRODESMUS FALCATUS	2.70	2.70	2.70
CHLOROPHYTA I	27.00	24.30	25.65
GROUP MEAN			28.40
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	13.50	18.90	16.20
STEPHANODISCUS ASTRAEA	5.40	5.40	5.40
FRAGILARIA VAUCHERIAE	2.70		1.35
SYNEDRA ULNA	2.70		1.35
COCCONEIS PEDICULUS	27.00	32.40	29.70
ACHNANTHES MINUTISSIMA	2.70	2.70	2.70
RHOICOSPHENIA CURVATA	2.70		1.35
NAVICULA CRYPTOCEPHALA	8.10	10.80	9.45
NAVICULA PELLICULOSA		13.50	6.75

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM	5.40	43.20	24.30
NAVICULA SALINARUM VAR. INTERMEDIA	27.00		13.50
NAVICULA TRIPUNCTATA		5.40	2.70
NAVICULA VIRIDULA	2.70	8.10	5.40
CALONEIS AMPHISBAENA	2.70		1.35
CALONEIS BACILLUM	2.70	2.70	2.70
CYMBELLA AFFINIS	2.70	2.70	2.70
GOMPHONEMA OLIVACEUM	13.50	13.50	13.50
GOMPHONEMA PARVULUM	5.40	2.70	4.05
EPITHEMIA SOREX	27.00	24.30	25.65
HANTZSCHIA AMPHIOXYS	2.70	2.70	2.70
NITZSCHIA ACICULARIS	5.40	10.80	8.10
NITZSCHIA CAPITELLATA	16.20	8.10	12.15
NITZSCHIA DISSIPATA		5.40	2.70
NITZSCHIA FRUSTULUM	2.70	10.80	6.75
NITZSCHIA GRACILIS	8.10	8.10	8.10
NITZSCHIA HOLSATICA	43.20	35.10	39.15
NITZSCHIA LINEARIS		2.70	1.35
NITZSCHIA MICROCEPHALA	2.70		1.35
NITZSCHIA PALEA	5.40	5.40	5.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA REVERSA		2.70	1.35
CYMATOPLEURA SOLEA		.04	.02
SURIRELLA OVATA	2.70		1.35
GROUP MEAN			260.57
EUGLENOPHYTA			
EUGLENA PROXIMA	2.70		1.35
EUGLENA SPP		2.70	1.35
GROUP MEAN			2.70
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	2.70	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	43.20	48.60	45.90
GROUP MEAN			45.90

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	5.40		2.70
ANABAENA SPP	2.70		1.35
CALOTHRIX SPP	2.70	2.70	2.70
GROUP MEAN			6.75
CHLOROPHYTA			
SCENEDESMUS QUADRICAUDA		10.80	5.40
CLOSTERIUM BREBISSONII	.08		.04
CLOSTERIUM LEIBLEINII		.04	.02
CHLOROPHYTA I	27.00	27.00	27.00
GROUP MEAN			32.46
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	29.70	8.10	18.90
STEPHANODISCUS ASTRAEA		2.70	1.35
FRAGILARIA LEPTOSTAURON		5.40	2.70
SYNEDRA TENERA		2.70	1.35
SYNEDRA ULNA	5.40		2.70
COCCONEIS PEDICULUS	56.70	27.00	41.85
ACHNANTHES MINUTISSIMA	16.20	18.90	17.55

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA ARVENSIS		2.70	1.35
NAVICULA CRYPTOCEPHALA	16.20	18.90	17.55
NAVICULA PELLICULOSA	10.80	18.90	14.85
NAVICULA SALINARUM VAR. INTERMEDIA	54.00	37.80	45.90
NAVICULA TRIPUNCTATA	5.40		2.70
NAVICULA VIRIDULA	8.10	5.40	6.75
CALONEIS AMPHISBAENA		.02	.01
CALONEIS BACILLUM	2.70		1.35
AMPHORA OVALIS VAR. PEDICULUS		2.70	1.35
GOMPHONEMA INTRICATUM	2.70		1.35
GOMPHONEMA OLIVACEUM	18.90	27.00	22.95
GOMPHONEMA PARVULUM		2.70	1.35
GOMPHONEMA VENTRICOSUM	2.70		1.35
EPITHEMIA SOREX	70.20	13.50	41.85
EPITHEMIA ZEBRA	2.70		1.35
NITZSCHIA ACICULARIS	21.60	2.70	12.15
NITZSCHIA APICULATA	2.70		1.35
NITZSCHIA CAPITELLATA	21.60	13.50	17.55
NITZSCHIA DISSIPATA	5.40		2.70
NITZSCHIA FRUSTULUM	16.20	10.80	13.50

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA GRACILIS	10.80	2.70	6.75
NITZSCHIA HOLSATICA	43.20	56.70	49.95
NITZSCHIA LATENS		2.70	1.35
NITZSCHIA MICROCEPHALA	8.10	10.80	9.45
NITZSCHIA REVERSA	2.70		1.35
GROUP MEAN			364.51
EUGLENOPHYTA			
EUGLENA SPP	16.20	18.90	17.55
GROUP MEAN			17.55
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	2.70	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	67.50	51.30	59.40
GROUP MEAN			59.40

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	2.70	10.80	6.75
SCENEDESMUS QUADRICAUDA	32.40		16.20
CHLOROPHYTA I	13.50	18.90	16.20
GROUP MEAN			39.15
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	5.40	10.80	8.10
STEPHANODISCUS ASTRAEA	2.70	5.40	4.05
FRAGILARIA PINNATA	13.50	5.40	9.45
FRAGILARIA VAUCHERIAE	8.10	5.40	6.75
SYNEDRA ULNA	8.10	5.40	6.75
COCCONEIS PEDICULUS	21.60	13.50	17.55
ACHNANTHES MINUTISSIMA	16.20		8.10
NAVICULA ARVENSIS	2.70		1.35
NAVICULA CRYPTOCEPHALA	10.90	16.20	17.55
NAVICULA PELLICULOSA	13.50	13.50	13.50
NAVICULA SALINARUM	2.70		1.35
NAVICULA SALINARUM VAR. INTERMEDIA	24.30	37.80	31.05
NAVICULA VIRIDULA	2.70	2.70	2.70
CALONEIS BACILLUM		2.70	1.35

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
AMPHORA OVALIS VAR. PEDICULUS	2.70	13.50	8.10
CYMBELLA AFFINIS		2.70	1.35
GOMPHONEMA INTRICATUM	2.70		1.35
GOMPHONEMA OLIVACEUM	24.30	16.20	20.25
GOMPHONEMA PARVULUM	2.70	2.70	2.70
GOMPHONEMA VENTRICOSUM		2.70	1.35
EPITHEMIA SOREX	18.90	13.50	16.20
HANTZSCHIA AMPHIOXYS	2.70		1.35
NITZSCHIA ACICULARIS	5.40		2.70
NITZSCHIA CAPITELLATA	13.50	32.40	22.95
NITZSCHIA DISSIPATA	5.40	5.40	5.40
NITZSCHIA FRUSTULUM	13.50	18.90	16.20
NITZSCHIA GRACILIS	13.50	10.80	12.15
NITZSCHIA HOLSATICA	37.80	70.20	54.00
NITZSCHIA LATENS	2.70	8.10	5.40
NITZSCHIA MICROCEPHALA		2.70	1.35
GROUP MEAN			302.40
EUGLENOPHYTA			
EUGLENA SPP	10.80	32.40	21.60
GROUP MEAN			21.60

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	2.70	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	45.90	43.20	44.55
GROUP MEAN			44.55

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	2.70	5.40	4.05
ANABAENA SPP	5.40		2.70
GROUP MEAN			6.75
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	2.70		1.35
SCENEDESMUS QUADRICAUDA		10.80	5.40
CHLOROPHYTA I	32.40	18.90	25.65
GROUP MEAN			32.40
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	29.70	10.80	20.25
STEPHANODISCUS ASTRAEA	2.70		1.35
FRAGILARIA CONSTRUENS	13.50		6.75
FRAGILARIA VAUCHERIAE	2.70		1.35
COCCONEIS PEDICULUS	48.60	43.20	45.90
ACHNANTHES LANCEOLATA	10.80		5.40
ACHNANTHES MINUTISSIMA	99.90	13.50	56.70
NAVICULA CRYPTOCEPHALA	16.20	16.20	16.20
NAVICULA PELLICULOSA	24.30	16.20	20.25

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM VAR. INTERMEDIA	32.40	40.50	36.45
NAVICULA VIRIDULA	5.40	2.70	4.05
NAVICULA SP 2		2.70	1.35
CALONEIS BACILLUM	2.70		1.35
AMPHORA OVALIS	2.70		1.35
AMPHORA OVALIS VAR. PEDICULUS	8.10		4.05
CYMBELLA VENTRICOSA	2.70	2.70	2.70
GOMPHONEMA INTRICATUM		5.40	2.70
GOMPHONEMA OLIVACEUM	13.50	21.60	17.55
EPITHEMIA SOREX	35.10	40.50	37.80
NITZSCHIA ACICULARIS	18.90	18.90	18.90
NITZSCHIA APICULATA		2.70	1.35
NITZSCHIA CAPITELLATA	24.30	18.90	21.60
NITZSCHIA DISSIPATA	2.70	5.40	4.05
NITZSCHIA FRUSTULUM	13.50	10.80	12.15
NITZSCHIA GRACILIS	16.20	10.80	13.50
NITZSCHIA HOLSATICA	51.30	37.80	44.55
NITZSCHIA LINEARIS	2.70	2.70	2.70
NITZSCHIA MICROCEPHALA	5.40		2.70
SURIRELLA OVATA	2.70		1.35
GROUP MEAN			406.35

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	18.90	24.30	21.60
GROUP MEAN			21.60
CRYPTOPHYTA			
CRYPTOMONAS EROSA		2.70	1.35
GROUP MEAN			1.35
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	67.50	40.50	54.00
GROUP MEAN			54.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	2.70	2.70	2.70
CALLOTHRIX SPP		2.70	1.35
GROUP MEAN			4.05
CHLOROPHYTA			
CHLOROPHYTA I	18.90	24.30	21.60
GROUP MEAN			21.60
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	8.10	18.90	13.50
STEPHANODISCUS ASTRAEA	10.80	8.10	9.45
FRAGILARIA LEPTOSTAURON		5.40	2.70
FRAGILARIA PINNATA		5.40	2.70
FRAGILARIA VAUCHERIAE	2.70		1.35
SYNEDRA ULNA	2.70		1.35
COCCONEIS PEDICULUS	35.10	35.10	35.10
ACHNANTHES LANCEOLATA	5.40		2.70
ACHNANTHES MINUTISSIMA	32.40	5.40	18.90
NEIDIUM SPP	2.70		1.35
NAVICULA CRYPTOCEPHALA	16.20	16.20	16.20

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA PELLICULOSA	27.00	16.20	21.60
NAVICULA SALINARUM VAR. INTERMEDIA	56.70	27.00	41.85
NAVICULA TRIPUNCTATA		5.40	2.70
NAVICULA VIRIDULA	8.10	13.50	10.80
AMPHORA OVALIS VAR. PEDICULUS	2.70		1.35
CYMBELLA SINUATA		2.70	1.35
CYMBELLA VENTRICOSA	5.40	2.70	4.05
GOMPHONEMA INTRICATUM	2.70		1.35
GOMPHONEMA OLIVACEUM	13.50	13.50	13.50
EPITHEMIA SOREX		32.40	16.20
NITZSCHIA ACICULARIS	5.40	16.20	10.80
NITZSCHIA CAPITELLATA	10.80	5.40	8.10
NITZSCHIA DISSIPATA	2.70	5.40	4.05
NITZSCHIA FRUSTULUM	16.20	2.70	9.45
NITZSCHIA GRACILIS	8.10	5.40	6.75
NITZSCHIA HOLSATICA	24.30	27.00	25.65
NITZSCHIA LINEARIS	2.70		1.35
GROUP MEAN			286.20

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	13.50	8.10	10.80
GROUP MEAN			10.80
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	2.70	4.05
GROUP MEAN			4.05
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	45.90	54.00	49.95
GROUP MEAN			49.95

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	2.70	5.40	4.05
CALOTHRIX SPP	5.40		2.70
GROUP MEAN			6.75
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	2.70		1.35
CHLOROPHYTA I	21.60	27.00	24.30
GROUP MEAN			25.65
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	13.50	13.50	13.50
STEPHANODISCUS ASTRAEA		2.70	1.35
DIATOMA VULGARE	2.70		1.35
SYNEDRA ULNA	5.40	2.70	4.05
COCCONEIS PEDICULUS	27.00	24.30	25.65
COCCONEIS PLACENTULA		5.40	2.70
ACHNANTHES MINUTISSIMA	5.40		2.70
GYROSIGMA ACUMINATUM		5.40	2.70
NAVICULA CRYPTOCEPHALA	21.60	8.10	14.85
NAVICULA PELLICULOSA	21.60	8.10	14.85

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
CHRYSUPHYTA			
NAVICULA SALINARUM		2.70	1.35
NAVICULA SALINARUM VAR. INTERMEDIA	21.60	24.30	22.95
NAVICULA VIRIDULA		2.70	1.35
AMPHORA OVALIS VAR. PEDICULUS	2.70		1.35
CYMBELLA AFFINIS	2.70	2.70	2.70
CYMBELLA SINUATA	2.70		1.35
CYMBELLA VENTRICOSA	2.70		1.35
GOMPHONEMA OLIVACEUM	24.30	8.10	16.20
GOMPHONEMA PARVULUM		2.70	1.35
EPITHEMIA SOREX	24.30	18.90	21.60
NITZSCHIA ACICULARIS	5.40	2.70	4.05
NITZSCHIA CAPITELLATA	10.80	16.20	13.50
NITZSCHIA DISSIPATA	5.40		2.70
NITZSCHIA FRUSTULUM	16.20	13.50	14.85
NITZSCHIA GRACILIS	5.40	5.40	5.40
NITZSCHIA HOLSATICA	37.80	18.90	28.35
NITZSCHIA LINEARIS	2.70		1.35
NITZSCHIA MICROCEPHALA	8.10	2.70	5.40
GROUP MEAN			230.85

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	13.50	5.40	9.45
GROUP MEAN			9.45
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	8.10	6.75
GROUP MEAN			6.75
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	40.50	32.40	36.45
GROUP MEAN			36.45

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	2.70		1.35
ANABAENA SPP	13.50	16.20	14.85
CALOTHRIX SPP		2.70	1.35
GROUP MEAN			17.55
CHLOROPHYTA			
STIGEOCLONIUM SPP		5.40	2.70
CLADOPHORA SPP		.70	.35
ANKISTRODESMUS FALCATUS		2.70	1.35
SCENEDESMUS QUADRICAUDA		16.20	8.10
CHLOROPHYTA 1	24.30	18.90	21.60
GROUP MEAN			34.10
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	48.60	62.10	55.35
STEPHANODISCUS ASTRAEA		8.10	4.05
FRAGILARIA LEPTOSTAURON	13.50	5.40	9.45
FRAGILARIA VAUCHERIAE		2.70	1.35
SYNEDRA PULCHELLA	5.40		2.70
SYNEDRA ULNA		2.70	1.35

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
COCCONEIS PEDICULUS	48.60		24.30
COCCONEIS PLACENTULA		2.70	1.35
ACHNANTHES LANCEOLATA	2.70		1.35
ACHNANTHES MINUTISSIMA	8.10	16.20	12.15
NAVICULA ARVENSIS	13.50	10.80	12.15
NAVICULA CRYPTOCEPHALA	18.90	18.90	18.90
NAVICULA PELLICULOSA	35.10	37.80	36.45
NAVICULA SALINARUM VAR. INTERMEDIA	64.80	75.60	70.20
NAVICULA TRIPUNCTATA		5.40	2.70
NAVICULA VIRIDULA	18.90	13.50	16.20
CALONEIS BACILLUM		5.40	2.70
CYMBELLA AFFINIS	2.70		1.35
GOMPHONEMA OLIVACEUM	10.80	18.90	14.85
EPITHEMIA SOREX	56.70	56.70	56.70
CYLINDROTHECA GRACILIS	5.40	2.70	4.05
NITZSCHIA ACICULARIS	10.80	27.00	18.90
NITZSCHIA APICULATA	8.10	8.10	8.10
NITZSCHIA CAPITELLATA	48.60	32.40	40.50
NITZSCHIA DISSIPATA	5.40	5.40	5.40
NITZSCHIA FRUSTULUM	18.90	27.00	22.95

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA GRACILIS	16.20	13.50	14.85
NITZSCHIA HOLSATICA	81.00	86.40	83.70
NITZSCHIA LATENS	2.70	5.40	4.05
SURIRELLA OVATA		2.70	1.35
GROUP MEAN			549.45
EUGLENOPHYTA			
EUGLENA SPP	18.90	18.90	18.90
GROUP MEAN			18.90
CRYPTOPHYTA			
CRYPTOMONAS EROSA	2.70	2.70	2.70
GROUP MEAN			2.70
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	75.60	54.00	64.80
GROUP MEAN			64.80

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP	32.40	10.80	21.60
GROUP MEAN			21.60
CHLOROPHYTA			
CHLOROPHYTA I	48.60	37.80	43.20
GROUP MEAN			43.20
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	16.20	16.20	16.20
SYNEDRA ULNA		5.40	2.70
COCCONEIS PEDICULUS	27.00	37.80	32.40
ACHNANTHES MINUTISSIMA	32.40	16.20	24.30
NAVICULA CRYPTOCEPHALA	10.80	21.60	16.20
NAVICULA PELLICULOSA		10.80	5.40
NAVICULA SALINARUM	5.40		2.70
NAVICULA SALINARUM VAR. INTERMEDIA	21.60	32.40	27.00
NAVICULA TRIPUNCTATA		5.40	2.70
NAVICULA VIRIDULA		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS	5.40		2.70
CYMBELLA AFFINIS	5.40	5.40	5.40

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CYMBELLA SINUATA		5.40	2.70
GOMPHONEMA INTRICATUM		5.40	2.70
GOMPHONEMA OLIVACEUM	27.00	48.60	37.80
EPITHEMIA SOREX	10.80	37.80	24.30
NITZSCHIA ACICULARIS	10.80	21.60	16.20
NITZSCHIA CAPITELLATA	10.80	27.00	18.90
NITZSCHIA DISSIPATA	5.40	10.80	8.10
NITZSCHIA FRUSTULUM	5.40	32.40	18.90
NITZSCHIA HOLSATICA	37.80	27.00	32.40
NITZSCHIA LATENS	21.60	5.40	13.50
GROUP MEAN			315.90
EUGLENOPHYTA			
EUGLENA SPP	5.40		2.70
GROUP MEAN			2.70
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	10.80	8.10
GROUP MEAN			8.10

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	32.40	27.00	29.70
GROUP MEAN			29.70

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CHROOCOCCUS DISPERSUS	43.20		21.60
OSCILLATORIA SPP	5.40		2.70
CALOTHRIX SPP	5.40		2.70
GROUP MEAN			27.00
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS	5.40	5.40	5.40
CHLOROPHYTA I	32.40	37.80	35.10
GROUP MEAN			40.50
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	10.80	21.60	16.20
COCCONEIS PEDICULUS	32.40	32.40	32.40
ACHNANTHES MINUTISSIMA	21.60	16.20	18.90
NAVICULA CRYPTOCEPHALA	27.00	10.80	18.90
NAVICULA PELLICULOSA	5.40	16.20	10.80
NAVICULA SALINARUM VAR. INTERMEDIA	27.00	21.60	24.30
NAVICULA TRIPUNCTATA		5.40	2.70
NAVICULA VIRIDULA		5.40	2.70
AMPHORA OVALIS VAR. PEDICULUS	5.40		2.70

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
GOMPHONEMA OLIVACEUM	32.40	32.40	32.40
EPITHEMIA SOREX	5.40	16.20	10.80
NITZSCHIA ACICULARIS		5.40	2.70
NITZSCHIA CAPITELLATA	5.40	16.20	10.80
NITZSCHIA DISSIPATA	10.80		5.40
NITZSCHIA FRUSTULUM	10.80	10.80	10.80
NITZSCHIA GRACILIS		10.80	5.40
NITZSCHIA HOLSATICA	32.40	48.60	40.50
NITZSCHIA LATENS	27.00	5.40	16.20
NITZSCHIA MICROCEPHALA	10.80		5.40
GROUP MEAN			270.00
EUGLENOPHYTA			
EUGLENA SPP		10.80	5.40
GROUP MEAN			5.40
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	27.00	27.00	27.00
GROUP MEAN			27.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	5.40	16.20	10.80
ANABAENA SPP	5.40	5.40	5.40
CALOTHRIX SPP	5.40		2.70
GROUP MEAN			18.90
CHLOROPHYTA			
CHLAMYDOMONAS GLOEOSA	5.40		2.70
ANKISTRODESMUS FALCATUS	5.40		2.70
CHLOROPHYTA I	27.00	43.20	35.10
GROUP MEAN			40.50
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	16.20	32.40	24.30
STEPHANODISCUS ASTRAEA		5.40	2.70
SYNEDRA PULCHELLA		5.40	2.70
SYNEDRA ULNA		5.40	2.70
COCCONEIS PEDICULUS	64.80	59.40	62.10
ACHNANTHES MINUTISSIMA	5.40	10.80	8.10
NAVICULA CRYPTOCEPHALA		21.60	10.80
NAVICULA PELLICULOSA	10.80	10.80	10.80

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM VAR. INTERMEDIA	16.20	37.80	27.00
NAVICULA TRIPUNCTATA	5.40		2.70
NAVICULA VIRIDULA		10.80	5.40
CYMBELLA SINUATA	5.40		2.70
CYMBELLA VENTRICOSA		10.80	5.40
GOMPHONEMA OLIVACEUM		32.40	16.20
GOMPHONEMA SUBCALVATUM	5.40	5.40	5.40
EPITHEMIA SOREX	5.40	16.20	10.80
NITZSCHIA ACICULARIS	5.40	10.80	8.10
NITZSCHIA CAPITELLATA	5.40	21.60	13.50
NITZSCHIA DISSIPATA	5.40		2.70
NITZSCHIA FRUSTULUM	27.00	37.80	32.40
NITZSCHIA GRACILIS	5.40	16.20	10.80
NITZSCHIA HOLSATICA	37.80	64.80	51.30
NITZSCHIA LATENS		21.60	10.80
NITZSCHIA MICROCEPHALA		10.80	5.40
NITZSCHIA REVERSA		5.40	2.70
GROUP MEAN			337.50

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	10.80	10.80	10.80
GROUP MEAN			10.80
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	37.80	32.40	35.10
GROUP MEAN			35.10

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
OSCILLATORIA SPP	5.40	5.40	5.40
CALOTHRIX SPP		2.70	1.35
GROUP MEAN			6.75
CHLOROPHYTA			
CHLAMYDOMONAS GLOBOSA		2.70	1.35
CHLOROPHYTA I	27.00	18.90	22.95
GROUP MEAN			24.30
CHRYSOPHYTA			
STEPHANODISCUS ASTRAEA	5.40		2.70
FRAGILARIA CONSTRUENS	5.40		2.70
SYNEDRA ULNA	2.70		1.35
COCCONEIS PEDICULUS	24.30	24.30	24.30
ACHNANTHES MINUTISSIMA	5.40	5.40	5.40
NAVICULA CRYPTOCEPHALA	5.40	10.80	8.10
NAVICULA PELLICULOSA	13.50	8.10	10.80
NAVICULA SALINARUM VAR. INTERMEDIA	13.50	16.20	14.85
NAVICULA TRIPUNCTATA	2.70	2.70	2.70
NAVICULA VIRIDULA	10.80	8.10	9.45

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SP 2	2.70		1.35
AMPHORA OVALIS	2.70		1.35
AMPHORA OVALIS VAR. PEDICULUS	2.70	2.70	2.70
CYMBELLA AFFINIS	2.70		1.35
CYMBELLA SINUATA		2.70	1.35
GOMPHONEMA INTRICATUM	2.70		1.35
GOMPHONEMA OLIVACEUM	18.90	18.90	18.90
GOMPHONEMA PARVULUM		2.70	1.35
EPITHEMIA SOREX	18.90	10.80	14.85
NITZSCHIA ACICULARIS	5.40	8.10	6.75
NITZSCHIA CAPITELLATA	8.10	18.90	13.50
NITZSCHIA DISSIPATA	2.70		1.35
NITZSCHIA FRUSTULUM		8.10	4.05
NITZSCHIA GRACILIS	5.40	5.40	5.40
NITZSCHIA HOLSATICA	24.30	54.00	39.15
NITZSCHIA LATENS	2.70	2.70	2.70
NITZSCHIA MICROCEPHALA		5.40	2.70
GROUP MEAN			202.50

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA SPP	2.70	21.60	12.15
GROUP MEAN			12.15
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	2.70	4.05
GROUP MEAN			4.05
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	35.10	27.00	31.05
GROUP MEAN			31.05

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
CALOTHRIX SPP	2.70		1.35
GROUP MEAN			1.35
CHLOROPHYTA			
ANKISTRODESMUS FALCATUS		2.70	1.35
CHLOROPHYTA I	21.60	18.90	20.25
GROUP MEAN			21.60
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	8.10	13.50	10.80
STEPHANODISCUS ASTRAEA		2.70	1.35
FRAGILARIA VAUCHERIAE	5.40	2.70	4.05
SYNEDRA ULNA	2.70		1.35
COCCONEIS PEDICULUS	32.40	29.70	31.05
ACHNANTHES MINUTISSIMA	5.40	10.80	8.10
NAVICULA CRYPTOCEPHALA	10.80	5.40	8.10
NAVICULA PELLICULOSA	18.90	16.20	17.55
NAVICULA SALINARUM VAR. INTERMEDIA	35.10	18.90	27.00
NAVICULA TRIPUNCTATA	2.70		1.35
NAVICULA VIRIDULA	2.70	10.80	6.75

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
CALONEIS AMPHISBAENA	.02		.01
AMPHORA OVALIS VAR. PEDICULUS		5.40	2.70
CYMBELLA AFFINIS		2.70	1.35
CYMBELLA SINUATA	2.70		1.35
CYMBELLA VENTRICOSA		2.70	1.35
GOMPHONEMA INTRICATUM		2.70	1.35
GOMPHONEMA OLIVACEUM	13.50	18.90	16.20
GOMPHONEMA PARVULUM		2.70	1.35
GOMPHONEMA VENTRICOSUM		2.70	1.35
EPITHEMIA SOREX	27.00	16.20	21.60
RHOPALODIA GIBBA		2.70	1.35
NITZSCHIA ACICULARIS	5.40	8.10	6.75
NITZSCHIA APICULATA		8.10	4.05
NITZSCHIA CAPITELLATA	5.40	10.80	8.10
NITZSCHIA DISSIPATA	5.40	5.40	5.40
NITZSCHIA FRUSTULUM	5.40	5.40	5.40
NITZSCHIA GRACILIS	13.50	2.70	8.10
NITZSCHIA HOLSATICA	27.00	45.90	36.45
NITZSCHIA LATENS	2.70	2.70	2.70
NITZSCHIA LINEARIS	2.70		1.35

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NITZSCHIA MICROCEPHALA	5.40	5.40	5.40
NITZSCHIA REVERSA		2.70	1.35
GROUP MEAN			252.46
EUGLENOPHYTA			
EUGLENA SPP	16.20	10.80	13.50
GROUP MEAN			13.50
CRYPTOPHYTA			
CRYPTOMONAS EROSA	5.40	5.40	5.40
GROUP MEAN			5.40
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	32.40	21.60	27.00
GROUP MEAN			27.00

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
CYANOPHYTA			
ANABAENA SPP	2.70		1.35
CALOTHRIX SPP	5.40		2.70
GROUP MEAN			4.05
CHLOROPHYTA			
STIGEOCLONIUM SPP		.12	.06
ANKISTRODESMUS FALCATUS		5.40	2.70
CHLOROPHYTA I	27.00	40.50	33.75
GROUP MEAN			36.51
CHRYSOPHYTA			
CYCLOTELLA MENEGHINIANA	8.10	2.70	5.40
STEPHANODISCUS ASTRAEA	5.40		2.70
FRAGILARIA PINNATA	5.40		2.70
COCCONEIS PEDICULUS	21.60	48.60	35.10
ACHNANTHES MINUTISSIMA	5.40	8.10	6.75
NAVICULA ARVENSIS	2.70		1.35
NAVICULA CRYPTOCEPHALA	8.10	8.10	8.10
NAVICULA CUSPIDATA		.02	.01
NAVICULA PELLICULOSA	16.20	24.30	20.25

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
CHRYSOPHYTA			
NAVICULA SALINARUM VAR. INTERMEDIA	21.60	13.50	17.55
NAVICULA VIRIDULA	2.70	2.70	2.70
AMPHORA OVALIS VAR. PEDICULUS		2.70	1.35
CYMBELLA AFFINIS	8.10	2.70	5.40
GOMPHONEMA OLIVACEUM	8.10	5.40	6.75
GOMPHONEMA PARVULUM	5.40	2.70	4.05
GOMPHONEMA VENTRICOSUM	2.70		1.35
EPITHEMIA SOREX	10.80	5.40	8.10
NITZSCHIA ACICULARIS	5.40	2.70	4.05
NITZSCHIA CAPITELLATA	10.80	13.50	12.15
NITZSCHIA DISSIPATA		2.70	1.35
NITZSCHIA FRUSTULUM	2.70	5.40	4.05
NITZSCHIA GRACILIS	2.70	5.40	4.05
NITZSCHIA HOLSATICA	29.70	27.00	28.35
NITZSCHIA LATENS	5.40	2.70	4.05
NITZSCHIA MICROCEPHALA		2.70	1.35
NITZSCHIA REVERSA		2.70	1.35
CYMATOPLEURA SOLEA		.02	.01
SURIRELLA ANGUSTATA		2.70	1.35
GROUP MEAN			191.72

Appendix H-5-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
EUGLENOPHYTA			
EUGLENA PROXIMA	2.70		1.35
EUGLENA SPP	8.10	8.10	8.10
GROUP MEAN			9.45
CRYPTOPHYTA			
CRYPTOMONAS EROSA	8.10		4.05
GROUP MEAN			4.05
MICROFLAGELLATES			
FLAGELLATE UNIDENTIFIED	54.00	54.00	54.00
GROUP MEAN			54.00

2.4.3 Zooplankton

Appendices H-6-1 and H-7-1 list the zooplankton taxa observed during the July - August 1976 and August - September 1976 sampling periods. The quantitative data for the two sampling periods is presented in Appendices H-6-2 and H-7-2.

The July - August 1976 Zooplankton densities varied considerably among the habitats, ranging from over 70,000 org/m^3 at the pond stations on Tract C-a to less than 60,000 org/m^3 in the White River. The high desities at the pond stations on tract were a direct result of the abundance of Ostracods at Station 14. A high diversity of litteral rotifers occurred at all the stations other than the those at the headwaters. Centropyxis spp. were the dominant protozoan forms at all habitats. Cladocera dominated the Crustacea of the Yellow Creek stations, but Bryocamptus hiemalis a copepod, was often the only Crustacean at the headwaters.

Zooplankton densities were generally lower in August - September 1976 than in previous months. Densities ranged from approximately 4,000 org/m^3 in the White River to over 12,000 org/m^3 at the pond stations on tract. As in previous months, Centropyxis spp. dominated the protozoan fauna at all habitats. In addition, peritrich ciliates were often abundant at Yellow Creek and White River stations. The rotifer fauna of the headwater stations was composed predominately of unidentified monogonont rotifers. A more diverse fauna including Lepadella, Lecane, and Euchlanis occurred at the other habitats. The dominant Crustacea at the headwater stations included Bryocamptus hiemalis, Paracyclops fimbriatus poppei and Ostracods, whereas Alona circumfimbriata, Pleuroxus aduncus, and nauplii were the more abundant forms at Yellow Creek. Few Crustacea occurred in the August - September White River samples.

2.4.3 - Zooplankton Data

ZOOPLANKTON RAW DATA

APPENDIX H-6-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

APPENDIX H-6-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY AUGUST 1976.

COLLECTION METHOD - SUBMERSIBLE PUMP

PROTOZOA

- CENTROPYXIS ACULEATA
- CENTROPYXIS ARCELLOIDES
- CENTROPYXIS CONSTRICTA
- CENTROPYXIS ECORNIS
- CILIATES UNIDENTIFIED
- COTHURNIA SPECIES
- CYPHODERIA AMPULLA
- DIFFLUGIA ACUMINATA
- DIFFLUGIA GRAMEN
- DIFFLUGIA LANCEOLATA
- DIFFLUGIA LEBES
- DIFFLUGIA LOBOSTOMA
- DIFFLUGIA SPECIES
- EPISTYLIS SPECIES
- EUGLYPHA COMPRESSA
- VORTICELLA SPECIES
- ZOOTHAMNIUM SPECIES

ROTIFER

- BDELLOIDEA SPECIES

2.4.3.388

Appendix H-6-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

ROTIFER

BRACHIONUS QUADRIDENTATUS
CEPHALODELLA FORFICULA
CEPHALODELLA GIBBA
CEPHALODELLA SPECIES
CEPHALODELLA VOLVOCICOLA
COLLURELLA ADRIATICA
EUCHLANIS DILATATA
KERATELLA COCHLEARIS
KERATELLA QUADRATA
LECANE LUNA
LEPADELLA OVALIS
LEPADELLA PATELLA
MONOGONONTA SPECIES
MONOSTYLA BULLA
MONOSTYLA CLOSTEROCERCA
MONOSTYLA LUNARIS VAR. X
MONOSTYLA LUNARIS
MONOSTYLA QUADRIDENTATA
MYTILINA VENTRALIS

Appendix H-6-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

ROTIFER

NOTHOLCA ACUMINATA
NOTHOLCA SQUAMULA
POMPHOLYX SULCATA
TRICHOTRIA POCILLUM
TRIPLEUCHLANIS PLICATA

TARDIGRADA

TARDIGRADA UNIDENTIFIED

CLADOCERA

ALONA CIRCUMFIMBRIATA
CERIODAPHNIA QUADRANGULA
CHYDORUS SPHAERICUS
DAPHNIA SPECIES
MOINA SPECIES
PLEUROXUS ADUNCUS
SCAPHOLEBERIS KINGI
SIMOCEPHALUS VETULUS

OSTRACODA

OSTRACODA SPECIES

COPEPODA (CYCLOPOIDA)

CYCLOPOID COPEPODITES
CYCLOPS BICUSPIDATUS THOMASI
CYCLOPS SPECIES
CYCLOPS VARICANS RUBELLUS

Appendix H-6-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

COPEPODA (CYCLOPOIDA)

CYCLOPS VERNALIS
EUCYCLOPS AGILIS
EUCYCLOPS SPERATUS
PARACYCLOPS FIMBRIATUS POPPEI

COPEPODA (HARPACTICOIDA)

BRYCCAMPTUS HIEMALIS
HARPACTICOID COPEPODITES
MORARIA AFFINIS
PARASTENOCARIS SPECIES

COPEPODA (GENERAL)

NAUPLII

AMPHIPODA

HYALELLA AZTECA

APPENDIX H-6-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

APPENDIX H-6-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1]
(Data are expressed as org/m^3)

SITE = 1

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		200.00	100.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	400.00	1000.00	700.00
VORTICELLA SPECIES		200.00	100.00
GROUP MEAN			1000.00
ROTIFER			
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			100.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		10.00	5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
PRYOCAMPTUS HIEMALIS	30.00	70.00	50.00
HARPACTICOID COPEPODITES	20.00		10.00
GROUP MEAN			60.00

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
COPEPODA (GENERAL)			
NAUPLII	400.00	400.00	400.00
GROUP MEAN			400.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	600.00	2000.00	1300.00
DIFFLUCIA LEBES		200.00	100.00
VORTICELLA SPECIES	600.00	2400.00	1500.00
GROUP MEAN			2900.00
ROTIFER			
MONOGONONTA SPECIES		200.00	100.00
GROUP MEAN			100.00
OSTRACODA			
OSTRACODA SPECIES		10.00	5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
PRYOCAMPTUS HIEMALIS	80.00	230.00	155.00
HARPACTICOID COPEPODITES	20.00	60.00	40.00
GROUP MEAN			195.00
COPEPODA (GENERAL)			
NAUPLII		400.00	200.00
GROUP MEAN			200.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		600.00	300.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	7200.00	4400.00	5800.00
CENTROPYXIS ECORNIS	1400.00	1600.00	1500.00
CILIATES UNIDENTIFIED	1000.00	1400.00	1200.00
COTHURNIA SPECIES		200.00	100.00
DIFFLUGIA ACUMINATA	400.00	400.00	400.00
DIFFLUGIA LEBES	600.00	1400.00	1000.00
VORTICELLA SPECIES	200.00	400.00	300.00
GROUP MEAN			10700.00
ROTIFER			
EDELLOIDEA SPECIES	1000.00	800.00	900.00
MONOGONONTA SPECIES	1200.00	400.00	800.00
GROUP MEAN			1700.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	60.00	20.00	40.00
GROUP MEAN			40.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	30.00	20.00	25.00
GROUP MEAN			25.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	270.00	190.00	230.00
HARPACTICOID COPEPODITES	110.00	30.00	70.00
MOPARIA AFFINIS		70.00	35.00
GROUP MEAN			335.00
COPEPODA (GENERAL)			
NAUPLII	1000.00	1000.00	1000.00
GROUP MEAN			1000.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00		100.00
CENTROPYXIS CONSTRICTA	3600.00	2000.00	2800.00
CENTROPYXIS ECORNIS	1000.00		500.00
VORTICELLA SPECIES		200.00	100.00
GROUP MEAN			3500.00
ROTIFER			
BDELLOIDEA SPECIES	600.00	400.00	500.00
LEPADELLA PATELLA	200.00	200.00	200.00
MONOGONONTA SPECIES	400.00		200.00
MONOSTYLA CLOSTEROCERCA	400.00		200.00
MONOSTYLA LUNARIS	200.00		100.00
GROUP MEAN			1200.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA	10.00	10.00	10.00
SCAPHOLEBERIS KINGI	20.00		10.00
GROUP MEAN			20.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	1040.00	1070.00	1055.00
GROUP MEAN			1055.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
PRYOCAMPTUS HIEMALIS	90.00	20.00	55.00
HARPACTICOID COPEPODITES	20.00		10.00
GROUP MEAN			65.00
COPEPODA (GENERAL)			
NAUPLII		600.00	300.00
GROUP MEAN			300.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	400.00	300.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	1600.00	600.00	1100.00
CENTROPYXIS ECORNIS	600.00	200.00	400.00
CILIATES UNIDENTIFIED	200.00	800.00	500.00
DIFFLUGIA GRAMEN	200.00	200.00	200.00
DIFFLUGIA LEBES	200.00		100.00
VORTICELLA SPECIES		200.00	100.00
GROUP MEAN			2800.00
ROTIFER			
CEPHALODELLA SPECIES	1200.00	800.00	1000.00
CEPHALODELLA VOLVOCICOLA	200.00		100.00
EUCHLANIS DILATATA		200.00	100.00
LECANE LUNA		600.00	300.00
LEPADELLA PATELLA	600.00	800.00	700.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA BULLA	1200.00	800.00	1000.00
MONOSTYLA CLOSTEROCERCA	600.00		300.00
MONOSTYLA LUNARIS	400.00	400.00	400.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
ROTIFER			
NOTHOLCA SQUAMULA	200.00		100.00
TRICHOTRIA POCILLUM	200.00	200.00	200.00
GROUP MEAN			4300.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	40.00	20.00	30.00
CERIODAPHNIA QUADRANGULA	220.00	220.00	220.00
CHYDORUS SPHAERICUS	130.00	210.00	170.00
MOINA SPECIES	10.00		5.00
PLEUROXUS ADUNCUS	150.00	160.00	155.00
SCAPHOLEBERIS KINGI	40.00	40.00	40.00
SIMOCEPHALUS VETULUS	80.00	40.00	60.00
GROUP MEAN			680.00
OSTRACODA			
OSTRACODA SPECIES	60.00	30.00	45.00
GROUP MEAN			45.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	170.00	150.00	160.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPIDA)			
CYCLOPS VERNALIS	10.00		5.00
EUCYCLOPS AGILIS	60.00	70.00	65.00
EUCYCLOPS SPERATUS	30.00	20.00	25.00
PARACYCLOPS FIMBRIATUS POPPEI	30.00	10.00	20.00
GROUP MEAN			275.00
COPEPODA (GENERAL)			
NAUPLII	1800.00		900.00
GROUP MEAN			900.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
CENTROPYXIS ARCELLOIDES	400.00	600.00	500.00
CENTROPYXIS CONSTRICTA	4800.00	5400.00	5100.00
CENTROPYXIS ECORNIS	600.00	800.00	700.00
CILIATES UNIDENTIFIED	800.00		400.00
CYPHODERIA AMPULLA	200.00	200.00	200.00
DIFFLUGIA LEBES	200.00		100.00
GROUP MEAN			7200.00
ROTIFER			
CEPHALODELLA SPECIES		200.00	100.00
CEPHALODELLA VOLVOCICOLA		400.00	200.00
MONOGONONTA SPECIES	600.00	400.00	500.00
GROUP MEAN			800.00
CLADOCERA			
CERIODAPHNIA QUADRANGULA	10.00		5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	3120.00	3760.00	3440.00
GROUP MEAN			3440.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00	30.00	20.00
PARACYCLOPS FIMBRIATUS POPPEI	60.00	60.00	60.00
GROUP MEAN			80.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	10.00		5.00
GROUP MEAN			5.00
COPEPODA (GENERAL)			
NAUPLII		200.00	100.00
GROUP MEAN			100.00
AMPHIPODA			
HYALELLA AZTECA	10.00		5.00
GROUP MEAN			5.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	200.00	500.00
CENTROPYXIS ARCELLOIDES	200.00	200.00	200.00
CENTROPYXIS CONSTRICTA	1600.00	1000.00	1300.00
CENTROPYXIS ECORNIS	200.00		100.00
CILIATES UNIDENTIFIED	200.00	1600.00	1000.00
CYPHODERIA AMPULLA	200.00		100.00
DIFFLUGIA LANCEOLATA		200.00	100.00
DIFFLUGIA SPECIES	200.00		100.00
GROUP MEAN			3400.00
ROTIFER			
BDELLOIDEA SPECIES	200.00	200.00	200.00
CEPHALODELLA GIBBA		200.00	100.00
MONOGONONTA SPECIES		200.00	100.00
GROUP MEAN			400.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	90.00	70.00	80.00
GROUP MEAN			80.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXEN	REP A	REP B	MEAN
CLADOCERA			
PLEUROXUS ADUNCUS	10.00	10.00	10.00
GROUP MEAN			10.00
OSTRACODA			
OSTRACODA SPECIES	140.00	210.00	175.00
GROUP MEAN			175.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	10.00	30.00	20.00
HARPACTICOID COPEPODITES	10.00		5.00
MORARIA AFFINIS	10.00		5.00
GROUP MEAN			30.00
COPEPODA (GENERAL)			
NAUPLII		200.00	100.00
GROUP MEAN			100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	200.00	300.00
CENTROPYXIS ARCELLOIDES.	200.00		100.00
CENTROPYXIS CONSTRICTA	2800.00	2400.00	2600.00
CENTROPYXIS ECORNIS	200.00	400.00	300.00
DIFFLUGIA LEBES		600.00	300.00
GROUP MEAN			3600.00
ROTIFER			
BDELLOIDEA SPECIES		400.00	200.00
CEPHALODELLA FORFICULA		200.00	100.00
CEPHALODELLA GIBBA		400.00	200.00
CEPHALODELLA VOLVOCICOLA		400.00	200.00
LECANE LUNA		200.00	100.00
LEPADELLA PATELLA		400.00	200.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
GROUP MEAN			1200.00
CLADOCERA			
PLEUROXUS ADUNCUS	20.00	10.00	15.00
GROUP MEAN			15.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	610.00	500.00	555.00
GROUP MEAN			555.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	70.00	40.00	55.00
GROUP MEAN			60.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	30.00		15.00
HARPACTICOID COPEPODITES	10.00	20.00	15.00
MORARIA AFFINIS	20.00		10.00
PARASTENOCARIS SPECIES		10.00	5.00
GROUP MEAN			45.00
COPEPODA (GENERAL)			
NAUPLII	200.00	400.00	300.00
GROUP MEAN			300.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	400.00	400.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	2400.00	3000.00	2700.00
CENTROPYXIS ECORNIS	1200.00	600.00	900.00
EUGLYPHA COMPRESSA	200.00		100.00
GROUP MEAN			4200.00
ROTIFER			
ROTELLEIDEA SPECIES	1400.00	1400.00	1400.00
EUCHLANIS DILATATA	200.00		100.00
LEPADELLA PATELLA	200.00	400.00	300.00
NOTHOLCA ACUMINATA		200.00	100.00
GROUP MEAN			1900.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00		5.00
GROUP MEAN			5.00
CLADOCERA			
PLEUROXUS ADUNCUS	170.00	80.00	125.00
GROUP MEAN			125.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	1060.00	660.00	860.00
GROUP MEAN			860.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	20.00	10.00	15.00
EUCYCLOPS AGILIS		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	50.00	60.00	55.00
GROUP MEAN			75.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	10.00		5.00
HARPACTICOID COPEPODITES		30.00	15.00
MORARIA AFFINIS		10.00	5.00
GROUP MEAN			25.00
COPEPODA (GENERAL)			
NAUPLII	400.00	600.00	500.00
GROUP MEAN			500.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	1200.00	1000.00
CENTROPYXIS CONSTRICTA	200.00	200.00	200.00
CENTROPYXIS ECORNIS		200.00	100.00
CILIATES UNIDENTIFIED	400.00		200.00
DIFFLUGIA GRAMEN	600.00	2000.00	1300.00
VORTICELLA SPECIES	4400.00		2200.00
GROUP MEAN			5000.00
ROTIFER			
BDELLOIDEA SPECIES	17200.00	9200.00	13200.00
EUCHLANIS DILATATA	800.00	400.00	600.00
LECANE LUNA	1000.00	1000.00	1000.00
LEPADELLA PATELLA	1400.00	1400.00	1400.00
MONOSTYLA BULLA	400.00		200.00
MONOSTYLA CLOSTEROCERCA	2600.00	2400.00	2500.00
NOTHOLCA ACUMINATA	400.00	1000.00	700.00
GROUP MEAN			19600.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	200.00		100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CLADOCERA			
CHYDORUS SPHAERICUS		200.00	100.00
PLEUROXUS ADUNCUS	33400.00	21600.00	27500.00
GROUP MEAN			27700.00
OSTRACODA			
OSTRACODA SPECIES	138800.00	100800.00	119800.00
GROUP MEAN			119800.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	1200.00	200.00	700.00
GROUP MEAN			700.00
COPEPODA (GENERAL)			
NAUPLII	400.00	1000.00	700.00
GROUP MEAN			700.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
PROTOZOA			
CILIATES UNIDENTIFIED	200.00		100.00
GROUP MEAN			100.00
ROTIFER			
BDELLOIDEA SPECIES	200.00	600.00	400.00
BRACHIONUS QUADRIDENTATUS	200.00	200.00	200.00
CEPHALODELLA GIBBA	200.00		100.00
COLURELLA ADRIATICA		200.00	100.00
EUCHLANIS DILATATA	200.00	400.00	300.00
LECANE LUNA	11400.00	12200.00	11800.00
LEPADELLA PATELLA	400.00	600.00	500.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA BULLA	5200.00	5000.00	5100.00
MONOSTYLA CLOSTEROCERCA	7400.00	4400.00	5900.00
MONOSTYLA QUADRIDENTATA	6000.00	3000.00	4500.00
GROUP MEAN			29000.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	1690.00	1070.00	1380.00
CERIODAPHNIA QUADRANGULA	10.00		5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CLADOCERA			
SIMOCEPHALUS VETULUS	150.00	190.00	170.00
GROUP MEAN			1555.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	540.00	690.00	615.00
EUCYCLOPS AGILIS	160.00	110.00	135.00
GROUP MEAN			750.00
COPEPODA (GENERAL)			
NAUPLII		200.00	100.00
GROUP MEAN			100.00
AMPHIPODA			
HYALELLA AZTECA	80.00	20.00	50.00
GROUP MEAN			50.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		400.00	200.00
GROUP MEAN			200.00
ROTIFER			
BRACHIONUS QUADRIDENTATUS	7600.00	8600.00	8100.00
CEPHALODELLA VOLVOCICOLA		400.00	200.00
EUCHLANIS DILATATA	1600.00	400.00	1000.00
LECANE LUNA	4400.00	4000.00	4200.00
MONOGONONTA SPECIES	1600.00	1200.00	1400.00
MONOSTYLA BULLA	200.00		100.00
MONOSTYLA QUADRIDENTATA	1200.00	1000.00	1100.00
TRIPLEUCHLANIS PLICATA	7600.00	7400.00	7600.00
GROUP MEAN			23700.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	200.00	150.00	175.00
PLEUROXUS ADUNCUS	10.00	10.00	10.00
GROUP MEAN			185.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXLN	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	410.00	250.00	330.00
GROUP MEAN			330.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
CYCLOPS VERNALIS	10.00	50.00	30.00
EUCYCLOPS AGILIS		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI		10.00	5.00
GROUP MEAN			45.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		200.00	100.00
CENTROPYXIS ECORNIS	200.00		100.00
DIFFLUGIA LEBES	200.00		100.00
GROUP MEAN			300.00
ROTIFER			
BDELLOIDEA SPECIES	1200.00	600.00	900.00
BRACHIONUS QUADRIDENTATUS	3800.00	5800.00	4800.00
EUCHLANIS DILATATA	2000.00	1400.00	1700.00
LECANE LUNA	1600.00	1200.00	1400.00
LEPADELLA PATELLA	200.00		100.00
MONOGONONTA SPECIES	200.00	200.00	200.00
MONOSTYLA BULLA	400.00		200.00
MONOSTYLA QUADRIDENTATA	200.00		100.00
MYTILINA VENTRALIS		200.00	100.00
TRIPLEUCHLANIS PLICATA	3000.00	1000.00	2000.00
GROUP MEAN			11500.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	70.00	100.00	85.00
GROUP MEAN			85.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXLN	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	7080.00	9050.00	8065.00
GROUP MEAN			8065.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	60.00	70.00	65.00
CYCLOPS VERNALIS	50.00		25.00
EUCYCLOPS SPERATUS		10.00	5.00
GROUP MEAN			95.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES		10.00	5.00
GROUP MEAN			5.00
COPEPODA (GENERAL)			
NAUPLII	800.00		400.00
GROUP MEAN			400.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		400.00	200.00
GROUP MEAN			200.00
ROTIFER			
BDELLOIDEA SPECIES	1200.00	3600.00	2400.00
BRACHIONUS QUADRIDENTATUS	2000.00	1400.00	1700.00
CEPHALODELLA VOLVOCICOLA	200.00	400.00	300.00
EUCHLANIS DILATATA	2000.00	600.00	1300.00
LECANE LUNA	600.00	600.00	600.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA BULLA	1000.00	600.00	800.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
MONOSTYLA LUNARIS VAR. X	200.00		100.00
TRIPLEUCHLANIS PLICATA	1000.00	400.00	700.00
GROUP MEAN			8100.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	370.00	280.00	325.00
CHYDORUS SPHAERICUS	10.00		5.00
DAPHNIA SPECIES	10.00		5.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
CLADOCERA			
PLEUROXUS ADUNCUS	20.00	820.00	420.00
GROUP MEAN			755.00
OSTRACODA			
OSTRACODA SPECIES	1090.00	4490.00	2790.00
GROUP MEAN			2790.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	2310.00	1390.00	1850.00
CYCLOPS SPECIES	10.00	20.00	15.00
CYCLOPS VARICANS RUBELLUS		20.00	10.00
CYCLOPS VERNALIS	90.00	140.00	115.00
EUCYCLOPS AGILIS	10.00		5.00
GROUP MEAN			1995.00
COPEPODA (GENERAL)			
NAUPLII	4400.00	2800.00	3600.00
GROUP MEAN			3600.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	400.00	300.00
CENTROPYXIS ARCELLOIDES	1200.00	1200.00	1200.00
CENTROPYXIS CONSTRICTA		600.00	300.00
CENTROPYXIS ECORNIS	200.00		100.00
EPISTYLIS SPECIES		600.00	300.00
ZOOTHAMNIUM SPECIES		4000.00	2000.00
GROUP MEAN			4200.00
ROTIFER			
BDELLOIDEA SPECIES	400.00		200.00
CEPHALODELLA SPECIES		200.00	100.00
LEPADELLA PATELLA	800.00	600.00	700.00
MONOSTYLA CLOSTEROCERCA	200.00	200.00	200.00
NOTHOLCA ACUMINATA		200.00	100.00
NOTHOLCA SQUAMULA	200.00		100.00
GROUP MEAN			1400.00
CLADOCERA			
PLEUROXUS ADUNCUS	180.00		90.00
GROUP MEAN			90.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACIDA SPECIES	170.00	50.00	110.00
GROUP MEAN			110.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	1000.00	700.00
CENTROPYXIS ARCELLOIDES	1400.00	1400.00	1400.00
CENTROPYXIS CONSTRICTA	600.00	400.00	500.00
CENTROPYXIS ECORNIS		200.00	100.00
DIFFLUGIA LEBES		400.00	200.00
DIFFLUGIA LOBOSTOMA	400.00		200.00
EPISTYLIS SPECIES	1000.00	3800.00	2400.00
VORTICELLA SPECIES	200.00		100.00
GROUP MEAN			5600.00
ROTIFER			
MONOSTYLA BULLA		200.00	100.00
NOTHOLCA SQUAMULA		200.00	100.00
GROUP MEAN			200.00
CLADOCERA			
PLEUROXUS ADUNCUS	30.00	10.00	20.00
GROUP MEAN			20.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	20.00		10.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	200.00	500.00
CENTROPYXIS ARCELLOIDES	4000.00	600.00	2300.00
CENTROPYXIS CONSTRICTA	1200.00	400.00	800.00
CENTROPYXIS ECORNIS	200.00		100.00
DIFFLUGIA LOBOSTOMA	200.00		100.00
ZOOTHAMNIUM SPECIES	2600.00		1300.00
GROUP MEAN			5100.00
ROTIFER			
LECANE LUNA	200.00	200.00	200.00
GROUP MEAN			200.00
OSTRACODA			
OSTRACODA SPECIES	10.00	10.00	10.00
GROUP MEAN			10.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	400.00	600.00
CENTROPYXIS ARCELLOIDES	1200.00	800.00	1000.00
CENTROPYXIS CONSTRICTA	1200.00	1000.00	1100.00
CENTROPYXIS ECORNIS	400.00		200.00
DIFFLUCIA LOBESTOMA		400.00	200.00
VORTICELLA SPECIES	400.00		200.00
ZOOTHAMNIUM SPECIES	1400.00		700.00
GROUP MEAN			4000.00
ROTIFER			
BDELLOIDEA SPECIES	200.00		100.00
LECANE LUNA	200.00	200.00	200.00
MONOCONONTA SPECIES		200.00	100.00
MONOSTYLA BULLA	200.00		100.00
GROUP MEAN			500.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	1000.00	200.00	600.00
CENTROPYXIS ARCELLOIDES	5200.00	1400.00	3300.00
CENTROPYXIS CONSTRICTA	800.00		400.00
CENTROPYXIS ECORNIS	200.00		100.00
CYPHODERIA AMPULLA		200.00	100.00
DIFFLUGIA LOBOSTOMA		200.00	100.00
EPISTYLIS SPECIES	400.00		200.00
VORTICELLA SPECIES	200.00		100.00
ZOOTHAMNIUM SPECIES	1200.00	200.00	700.00
GROUP MEAN			5600.00
ROTIFERA			
BDELLOIDEA SPECIES		200.00	100.00
CEPHALODELLA GIBBA	200.00	200.00	200.00
COLURELLA ADRIATICA		200.00	100.00
KERATELLA QUADRATA		200.00	100.00
LEPADELLA PATELLA	1000.00	600.00	800.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA BULLA		200.00	100.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXEN	REP A	REP B	MEAN
ROTIFER			
MONOSTYLA LUNARIS VAR. X	400.00		200.00
GROUP MEAN			1800.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		20.00	10.00
GROUP MEAN			10.00
CLADOCERA			
PLEUROXUS ADUNCUS		40.00	20.00
GROUP MEAN			20.00
OSTRACODA			
OSTRACODA SPECIES	10.00	20.00	15.00
GROUP MEAN			15.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS		10.00	5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	200.00	300.00
CENTROPYXIS ARCELLOIDES	3800.00	1000.00	2400.00
CENTROPYXIS CONSTRICTA	200.00		100.00
CENTROPYXIS ECORNIS		400.00	200.00
CILIATES UNIDENTIFIED	200.00		100.00
DIFFLUGIA ACUMINATA		200.00	100.00
DIFFLUGIA LOBOSTOMA		200.00	100.00
EPISTYLIS SPECIES	2000.00	1600.00	1800.00
ZOOTHAMNIUM SPECIES		1800.00	900.00
GROUP MEAN			6000.00
ROTIFER			
EDELLOIDEA SPECIES	600.00	400.00	500.00
EUCHLANIS DILATATA		200.00	100.00
KERATELLA QUADRATA	200.00		100.00
LECANE LUNA	400.00	400.00	400.00
LEPADELLA PATELLA	800.00	200.00	500.00
MONOGONONTA SPECIES	200.00	200.00	200.00
MONOSTYLA BULLA	200.00	1000.00	600.00
MONOSTYLA CLOSTEROCERCA	400.00	200.00	300.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
ROTIFER			
MONOSTYLA LUNARIS VAR. X	200.00		100.00
NOTHOLCA SQUAMULA	400.00		200.00
POMPHOLYX SULCATA		200.00	100.00
GROUP MEAN			3100.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00	20.00	20.00
GROUP MEAN			20.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	20.00	30.00	25.00
ALONA COSTATA		10.00	5.00
PLEUROXUS ADUNCUS	20.00	10.00	15.00
SCAPHOLEBERIS KINGI	10.00		5.00
GROUP MEAN			50.00
OSTRACODA			
OSTRACODA SPECIES	50.00	60.00	55.00
GROUP MEAN			55.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	20.00		10.00
GROUP MEAN			15.00
COPEPODA (HARPACTICOIDA)			
PARASTENOCARIS SPECIES	10.00		5.00
GROUP MEAN			5.00
COPEPODA (GENERAL)			
NAUPLII	200.00		100.00
GROUP MEAN			100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		800.00	400.00
CENTROPYXIS ARCELLOIDES	3600.00	3600.00	3600.00
CENTROPYXIS CONSTRICTA	400.00	600.00	500.00
CENTROPYXIS ECORNIS		200.00	100.00
DIFFLUGIA LOBOSTOMA		400.00	200.00
EPISTYLIS SPECIES	600.00		300.00
GROUP MEAN			5100.00
ROTIFER			
BDELLOIDEA SPECIES	200.00	200.00	200.00
BRACHIONUS QUADRIDENTATUS		400.00	200.00
COLURELLA ADRIATICA	200.00	200.00	200.00
KERATELLA COCHLEARIS		200.00	100.00
LECANE LUNA	400.00		200.00
LEPADELLA PATELLA	1400.00	1200.00	1300.00
MENOGONONTA SPECIES	600.00	200.00	400.00
MONOSTYLA BULLA	200.00	200.00	200.00
MONOSTYLA CLOSTEROCERCA	200.00	600.00	400.00
MONOSTYLA QUADRIDENTATA		200.00	100.00
NOTHOLCA SQUAMULA	200.00		100.00
GROUP MEAN			3400.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00	20.00	20.00
GROUP MEAN			20.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	10.00		5.00
PLEUROXUS ADUNCUS	10.00	30.00	20.00
GROUP MEAN			25.00
OSTRACODA			
OSTRACODA SPECIES	30.00	20.00	25.00
GROUP MEAN			25.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES		10.00	5.00
CYCLOPS BICUSPIDATUS THOMASI		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	10.00		5.00
GROUP MEAN			15.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00	400.00	500.00
CENTROPYXIS ARCELLOIDES	8800.00	4400.00	6600.00
CENTROPYXIS CONSTRICTA	600.00	200.00	400.00
CENTROPYXIS ECORNIS		200.00	100.00
DIFFLUGIA LUBOSTOMA		200.00	100.00
DIFFLUCIA SPECIES	200.00		100.00
EPISTYLIS SPECIES		600.00	300.00
GROUP MEAN			8100.00
ROTIFER			
BDELLOIDEA SPECIES		200.00	100.00
LEPADELLA PATELLA	200.00	200.00	200.00
GROUP MEAN			300.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00		10.00
GROUP MEAN			10.00
OSTRACODA			
OSTRACODA SPECIES	40.00		20.00
GROUP MEAN			20.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	1600.00	200.00	900.00
CENTROPYXIS ARCELLOIDES	1600.00	2800.00	2200.00
CENTROPYXIS CONSTRICTA	1000.00	1400.00	1200.00
CENTROPYXIS ECORNIS	200.00	400.00	300.00
DIFFLUGIA LOBOSTOMA	400.00		200.00
EPISTYLIS SPECIES	1000.00		500.00
GROUP MEAN			5300.00
ROTIFER			
MONOSTYLA BULLA		200.00	100.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
GROUP MEAN			200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		40.00	20.00
GROUP MEAN			20.00
OSTRACODA			
OSTRACODA SPECIES		20.00	10.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	2000.00	1400.00
CENTROPYXIS ARCELLOIDES	2800.00	2200.00	2500.00
CENTROPYXIS CONSTRICTA	600.00	1000.00	800.00
CENTROPYXIS ECORNIS	400.00	1200.00	800.00
DIFFLUGIA LUPOSTOMA		400.00	200.00
GROUP MEAN			5700.00
ROTIFER			
BDELLOIDEA SPECIES		200.00	100.00
LEPADELLA PATELLA	200.00		100.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
MONOSTYLA QUADRIDENTATA	200.00	200.00	200.00
NOTHOLCA SQUAMULA	200.00		100.00
GROUP MEAN			600.00
CLADOCERA			
PLEUROXUS ADUNCUS		10.00	5.00
GROUP MEAN			5.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXEN	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES		20.00	10.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	200.00	300.00
CENTROPYXIS ARCELLOIDES	2200.00	2400.00	2300.00
CENTROPYXIS CONSTRICTA		600.00	300.00
ZOOTHAMNIUM SPECIES	1600.00	1200.00	1400.00
GROUP MEAN			4300.00
ROTIFER			
PDELLOIDEA SPECIES	200.00	200.00	200.00
LECANE LUNA		200.00	100.00
LEPADELLA PATELLA	400.00	400.00	400.00
MONOSTYLA BULLA		200.00	100.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
GROUP MEAN			900.00
COPEPODA (CYCLOPOIDA)			
PARACYCLOPS FIMBRIATUS POPPEI		10.00	5.00
GROUP MEAN			5.00

Appendix H-6-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00	200.00	400.00
CENTROPYXIS ARCELLOIDES	1000.00	600.00	1200.00
CENTROPYXIS CONSTRICTA	600.00	200.00	400.00
EPISTYLIS SPECIES	1400.00	2400.00	1900.00
GROUP MEAN			3900.00
ROTIFER			
PDELLOIDEA SPECIES	200.00		100.00
BRACHIONUS QUADRIDENTATUS	200.00	200.00	200.00
LEPADELLA PATELLA	400.00	800.00	600.00
MONOGONONTA SPECIES		200.00	100.00
MONOSTYLA BULLA		200.00	100.00
MONOSTYLA LUNARIS VAR. X	400.00	200.00	300.00
GROUP MEAN			1400.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00	20.00	15.00
GROUP MEAN			15.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	800.00	500.00
CENTROPYXIS ARCELLOIDES	1000.00	2400.00	1700.00
CENTROPYXIS CONSTRICTA	600.00	800.00	700.00
CENTROPYXIS ECORNIS		400.00	200.00
DIFFLUGIA GRAMEN		400.00	200.00
EPISTYLIS SPECIES	1200.00		600.00
GROUP MEAN			3900.00
ROTIFER			
PDELLOIDEA SPECIES	200.00		100.00
CEPHALODELLA VOLVOCICOLA	200.00		100.00
LECANE LUNA	200.00		100.00
LEPADELLA OVALIS	200.00		100.00
LEPADELLA PATELLA	200.00	800.00	500.00
MONOSTYLA BULLA	600.00	800.00	700.00
MONOSTYLA QUADRIDENTATA		200.00	100.00
GROUP MEAN			1700.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00	10.00	10.00
GROUP MEAN			10.00

APPENDIX H-7-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1976

APPENDIX H-7-1

ZOOPLANKTON TAXA OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.

COLLECTION METHOD - SUBMERSIBLE PUMP

PROTOZOA

CENTROPYXIS ACULEATA
CENTROPYXIS ARCELLOIDES
CENTROPYXIS CONSTRICTA
CENTROPYXIS ECORNIS
CILIATES UNIDENTIFIED
COTHURNIA SPECIES
CYPHODERIA AMPULLA
DIFFLUGIA ACUMINATA
DIFFLUGIA GRAMEN
DIFFLUGIA LEBES
DIFFLUGIA LOBOSTOMA
DIFFLUGIA URCEOLATA
DILEPTUS ANSER
EPISTYLIS SPECIES
EUGLYPHA COMPRESSA
PARAMECIUM SPECIES
PLAGIOPYXIS SPECIES
RHABDOSTYLA SPECIES

Appendix H-7-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

PROTOZOA

VORTICELLA SPECIES
ZOOTHAMNIUM SPECIES

GASTROTRICHA

CHAETONOTUS SPECIES

RETIFER

BDELLOIDEA SPECIES
BRACHIONUS QUADRIDENTATUS
CEPHALODELLA FORFICULA
CEPHALODELLA GIBBA
CEPHALODELLA SPECIES
CEPHALODELLA VOLVOCICOLA
COLURELLA ADRIATICA
EUCHLANIS DILATATA
LECANE LUNA
LEPADELLA PATELLA
LEPADELLA RHOMBOIDES
LOPHOCHARIS OXYSTERNON
MONOGONONTA SPECIES
MONOSTYLA BULLA
MONOSTYLA CLOSTEROCERCA
MONOSTYLA LUNARIS VAR. X

Appendix H-7-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

ROTIFER

- MONOSTYLA LUNARIS
- MONOSTYLA QUADRIDENTATA
- NOTHOLCA ACUMINATA
- NOTHOLCA SQUAMULA
- NOTOMMATA SPECIES
- TRICHOTRIA POCILLUM
- TRIPLEUCHLANIS PLICATA

TARDIGRADA

- TARDIGRADA UNIDENTIFIED

CLADOCERA

- ALONA CIRCUMFIMBRIATA
- ALONA SPECIES
- CHYDORUS SPHAERICUS
- PLEUROXUS ADUNCUS
- SIMOCEPHALUS VETULUS

OSTRACODA

- OSTRACODA SPECIES

COPEPODA (CYCLOPOIDA)

- CYCLOPOID COPEPODITES
- EUCYCLOPS AGILIS
- MACROCYCLOPS ALBIDUS
- PARACYCLOPS FIMBRIATUS POPPEI

COPEPODA (HARPACTICOIDA)

- BRYOCAMPTUS HIEMALIS

Appendix H-7-1 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

COPEPODA (HARPACTICOIDA)

ELAPHOIDELLA SUBGRACILIS

HARPACTICOID COPEPODITES

MURARIA AFFINIS

COPEPODA (GENERAL)

NAUPLII

APPENDIX H-7-2

DENSITIES OF ZOOPLANKTON OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

DENSITIES OF ZOOPLANKTON OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.[1]

(Data are expressed as org/m^3)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ARCELLOIDES	400.00	200.00	300.00
CENTROPYXIS CONSTRICTA	1200.00	600.00	900.00
CENTROPYXIS ECORNIS	200.00		100.00
VORTICELLA SPECIES	200.00		100.00
GROUP MEAN			1400.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	400.00	400.00
CEPHALODELLA SPECIES	200.00	200.00	200.00
CEPHALODELLA VOLVOCICOLA	200.00		100.00
MONOCHAETA SPECIES	600.00	600.00	600.00
GROUP MEAN			1300.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	50.00	70.00	60.00
GROUP MEAN			60.00
OSTRACODA			
OSTRACODA SPECIES	10.00	10.00	10.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 1

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
PRYOCAMPTUS PIENALIS	90.00	100.00	95.00
HARPACTICOID COPEPODITES	40.00	60.00	50.00
GROUP MEAN			145.00
COPEPODA (GENERAL)			
NAUPLII	1600.00	800.00	1200.00
GROUP MEAN			1200.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	400.00	300.00
CENTROPYXIS CONSTRICTA	1400.00	1200.00	1300.00
RHABDOSTYLA SPECIES		400.00	200.00
VORTICELLA SPECIES	200.00		100.00
GROUP MEAN			1900.00
ROTIFER			
BDELLOIDEA SPECIES	4800.00	600.00	2700.00
CEPHALODELLA SPECIES	200.00		100.00
MONOGONONTA SPECIES		800.00	400.00
GROUP MEAN			3200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00		5.00
GROUP MEAN			5.00
COPEPODA (CYCLOPOIDA)			
PARACYCLOPS FIMBRIATUS POPPEI	540.00		270.00
GROUP MEAN			270.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 2

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
CRYPTOCAMPTUS HIEMALIS		340.00	170.00
HARPACTICOID COPEPODITES	290.00	100.00	195.00
HORARIA AFFINIS	10.00		5.00
GROUP MEAN			370.00
COPEPODA (GENERAL)			
NAUPLII	4800.00	4600.00	4700.00
GROUP MEAN			4700.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	600.00	1000.00	800.00
CENTROPYXIS ECORNIS	200.00	600.00	400.00
CILIATES UNIDENTIFIED	600.00	200.00	400.00
DILEPTUS ANSER	200.00		100.00
PARAMECIUM SPECIES	400.00	200.00	300.00
VORTICELLA SPECIES	200.00	400.00	300.00
GROUP MEAN			2400.00
ROTIFER			
ADELLOIDEA SPECIES	3800.00	5800.00	4800.00
CEPHALODELLA GIBBA		200.00	100.00
CEPHALODELLA VOLVOCICOLA	400.00	4800.00	2600.00
LEPADELLA PATELLA	200.00		100.00
MONOGONONTA SPECIES	4400.00	1800.00	3100.00
NOTOMMATA SPECIES	200.00		100.00
GROUP MEAN			10800.00
OSTRACODA			
OSTRACODA SPECIES	70.00	20.00	45.00
GROUP MEAN			45.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 3

TAXON	REP A	REP B	MEAN
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	30.00	80.00	55.00
HARPACTICOID COPEPODITES	10.00	60.00	35.00
GROUP MEAN			90.00
COPEPODA (GENERAL)			
NAUPLII	800.00	200.00	500.00
GROUP MEAN			500.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	1000.00	600.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	1200.00	2200.00	1700.00
CENTROPYXIS ECORNIS		1200.00	600.00
CILIATES UNIDENTIFIED		200.00	100.00
CYPHODERIA AMPULLA		200.00	100.00
EUGLYPHA COMPRESSA	200.00		100.00
GROUP MEAN			3300.00
ROTIFER			
BDELLOIDEA SPECIES	1200.00	3200.00	2200.00
CEPHALODELLA GIBBA	200.00		100.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
LEPADELLA PATELLA		200.00	100.00
MONOGONONTA SPECIES		400.00	200.00
GROUP MEAN			2700.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00	40.00	25.00
GROUP MEAN			25.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 4

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	1520.00	1870.00	1695.00
GROUP MEAN			1695.00
COPEPODA (CYCLOPOIDA)			
CYCLOPEID COPEPODITES		10.00	5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	210.00	170.00	190.00
HARPACTICOID COPEPODITES	110.00	270.00	190.00
GROUP MEAN			380.00
COPEPODA (GENERAL)			
NAUPLII	2400.00	1200.00	1800.00
GROUP MEAN			1800.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA		200.00	100.00
CENTROPYXIS ECORNIS	400.00	200.00	300.00
DIFFLUGIA ACUMINATA		200.00	100.00
GROUP MEAN			500.00
ROTIFER			
CEPHALODELLA VOLVOCICOLA	400.00	200.00	300.00
LEPADELLA PATELLA	200.00	1200.00	700.00
MONOGONONTA SPECIES	200.00	200.00	200.00
NOTOMMATA SPECIES	400.00		200.00
GROUP MEAN			1400.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA		20.00	10.00
PLEUROXUS ADUNCUS		10.00	5.00
GROUP MEAN			15.00
OSTRACODA			
OSTRACODA SPECIES	30.00	70.00	50.00
GROUP MEAN			50.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 5

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPID COPEPODITES	10.00	10.00	10.00
EUCYCLOPS AGILIS	10.00	10.00	10.00
PARACYCLOPS FIMBRIATUS POPPEI	10.00		5.00
GROUP MEAN			25.00
COPEPODA (HARPACTICOIDA)			
ERYCANPTUS HIEMALIS	10.00		5.00
HARPACTICOID COPEPODITES		10.00	5.00
GROUP MEAN			10.00
COPEPODA (GENERAL)			
NAUPLII	200.00		100.00
GROUP MEAN			100.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	1400.00	800.00	1100.00
CENTROPYXIS ECORNIS		200.00	100.00
CYPHODERIA AMPULLA	400.00	400.00	400.00
GROUP MEAN			1700.00
ROTIFER			
ROTIFERIDEA SPECIES	600.00	400.00	500.00
CEPHALODELLA GIBBA	200.00	200.00	200.00
CEPHALODELLA SPECIES		600.00	300.00
CEPHALODELLA VOLVOCICOLA	200.00	200.00	200.00
MONOGONONTA SPECIES	400.00	200.00	300.00
NOTOMMATA SPECIES		200.00	100.00
GROUP MEAN			1600.00
OSTRACODA			
OSTRACODA SPECIES	5980.00	3760.00	4870.00
GROUP MEAN			4870.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 7

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
EUCYCLOPS AGILIS	10.00	10.00	10.00
PARACYCLOPS FIMBRIATUS POPPEI		20.00	10.00
GROUP MEAN			25.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	10.00	10.00	10.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 8

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00		100.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	200.00	200.00	200.00
GROUP MEAN			400.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	400.00	400.00
LEPADELLA PATELLA	200.00	200.00	200.00
MONOGONONTA SPECIES	200.00	200.00	200.00
GROUP MEAN			800.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00		5.00
GROUP MEAN			5.00
CLADOCERA			
CHYDORUS SPHAERICUS		10.00	5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = B

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	2130.00	1260.00	1695.00
GROUP MEAN			1695.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	10.00	10.00	10.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		200.00	100.00
CENTROPYXIS ARCELLOIDES	200.00	200.00	200.00
CENTROPYXIS CONSTRICTA	2800.00	2600.00	2700.00
CENTROPYXIS ECORNIS	400.00	800.00	600.00
CYPHODERIA AMPULLA	400.00	200.00	300.00
GROUP MEAN			3900.00
ROTIFER			
BDELLOIDEA SPECIES	800.00	400.00	600.00
CEPHALODELLA GIBBA	400.00		200.00
LEPADELLA PATELLA		400.00	200.00
MONOCONONTA SPECIES	400.00	200.00	300.00
GROUP MEAN			1300.00
OSTRACODA			
OSTRACODA SPECIES	3760.00	5740.00	4750.00
GROUP MEAN			4750.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 9

TAXON	REP A	REP B	MEAN
COPEPODA (CYCLOPOIDA)			
MACROCYCLOPS ALBIDUS		10.00	5.00
PARACYCLOPS FIMBRIATUS POPPEI	20.00	30.00	25.00
GROUP MEAN			35.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	10.00		5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	200.00	1400.00	800.00
CENTROPYXIS ARCELLOIDES		200.00	100.00
CENTROPYXIS CONSTRICTA	2600.00	2200.00	2400.00
CENTROPYXIS ECORNIS	1400.00	600.00	1000.00
GROUP MEAN			4300.00
ROTIFER			
PHILODINIDAE SPECIES		400.00	200.00
CEPHALODELLA FORFICULA	200.00		100.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
LEPADELLA PATELLA	400.00	200.00	300.00
MONOGONONTA SPECIES	600.00		300.00
MONOSTYLA LUNARIS VAR. X		200.00	100.00
NOTHOLCA SQUAMULA	200.00		100.00
GROUP MEAN			1200.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	10.00	10.00	10.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 13

TAXLN	REP A	REP B	MEAN
OSTRACODA			
OSTRACIDA SPECIES	4860.00	9900.00	7380.00
GROUP MEAN			7380.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	30.00	10.00	20.00
EUCYCLOPS AGILIS	10.00		5.00
PARACYCLOPS FIMBRIATUS POPPEI		40.00	20.00
GROUP MEAN			45.00
COPEPODA (HARPACTICOIDA)			
BRYOCAMPTUS HIEMALIS	10.00	30.00	20.00
HARPACTICOID COPEPODITES	90.00	40.00	65.00
MORARIA AFFINIS		10.00	5.00
GROUP MEAN			90.00
COPEPODA (GENERAL)			
NAUPLII	400.00	200.00	300.00
GROUP MEAN			300.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	1200.00	200.00	700.00
CENTROPYXIS CONSTRICTA	600.00	400.00	500.00
CENTROPYXIS ECORNIS	800.00	800.00	800.00
DIFFLUGIA GRAMEN	600.00	400.00	500.00
DIFFLUGIA LOBOSTOMA		200.00	100.00
VORTICELLA SPECIES		1600.00	800.00
GROUP MEAN			3400.00
ROTIFER			
BDELLOIDEA SPECIES	3600.00	2200.00	2900.00
CEPHALODELLA GIBBA	200.00		100.00
EUCHLANIS DILATATA	400.00		200.00
LECANE LUNA	1000.00	200.00	600.00
LEPADELLA PATELLA	1400.00	1000.00	1200.00
NOTHOLCA ACUMINATA	600.00		300.00
NOTHOLCA SQUAMULA	200.00		100.00
TRIPLEUCHLANIS PLICATA	200.00		100.00
GROUP MEAN			5500.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 14

TAXON	REP A	REP B	MEAN
CLADOCERA			
ALONA CIRCUMFIMBRIATA	10.00	10.00	10.00
CHYDORUS SPHAERICUS	1020.00	950.00	985.00
PLEUROXUS ADUNCUS	14800.00	17100.00	15950.00
GROUP MEAN			16945.00
OSTRACODA			
OSTRACODA SPECIES	2060.00	2090.00	2075.00
GROUP MEAN			2075.00
COPEPODA (CYCLOPOIDA)			
PARACYCLOPS FIMBRIATUS POPPEI	10.00		5.00
GROUP MEAN			5.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES	10.00		5.00
MORARIA AFFINIS	10.00		5.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		400.00	200.00
CENTROPYXIS CONSTRICTA	400.00	400.00	400.00
CENTROPYXIS ECORNIS	200.00	1000.00	600.00
DIFFLUGIA LUBESTOMA		200.00	100.00
DIFFLUGIA URCEOLATA	200.00		100.00
GROUP MEAN			1400.00
ROTIFER			
CEPHALODELLA CIBRA	200.00		100.00
CEPHALODELLA VOLVOCICOLA		400.00	200.00
EUCHLANIS DILATATA	800.00		400.00
LECANE LUNA	400.00	800.00	600.00
LEPADELLA PATELLA		800.00	400.00
LOPHOCHARIS OXYSTERNON	200.00		100.00
MONOGONONTA SPECIES	200.00	1600.00	900.00
MONOSTYLA BULLA	600.00	1000.00	800.00
NOTHOLCA SQUAMULA	200.00		100.00
NOTOMMATA SPECIES	1400.00		700.00
TRIPLEUCHLANIS PLICATA		400.00	200.00
GROUP MEAN			4500.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
CLADOCERA			
ALONA CIRCUMFIMBRIATA	1280.00	1400.00	1340.00
PLEUROXUS ADUNCUS		10.00	5.00
SIMOCEPHALUS VETULUS	10.00		5.00
GROUP MEAN			1350.00
OSTRACODA			
OSTRACODA SPECIES		60.00	30.00
GROUP MEAN			30.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	30.00	50.00	40.00
EUCYCLOPS AGILIS		50.00	25.00
MACROCYCLOPS ALBIDUS	20.00		10.00
GROUP MEAN			75.00
COPEPODA (HARPACTICOIDA)			
DRYOCAMPTUS HIEMALIS		10.00	5.00
ELAPHOIDELLA SUBGRACILIS	10.00		5.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 19

TAXON	REP A	REP B	MEAN
COPEPODA (GENERAL)			
NAUPLII		200.00	100.00
GROUP MEAN			100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		200.00	100.00
CENTROPYXIS CONSTRICTA	2600.00	2400.00	2500.00
CENTROPYXIS ECORNIS		400.00	200.00
DIFFLUGIA LEBES	200.00	200.00	200.00
GROUP MEAN			3000.00
ROTIFER			
PDELLOIDEA SPECIES	200.00		100.00
BRACHIONUS QUADRIDENTATUS	400.00	600.00	500.00
CEPHALODELLA CIBBA	200.00		100.00
LECANE LUNA	1000.00	600.00	800.00
MONOGONONTA SPECIES		200.00	100.00
MONOSTYLA LUNARIS	400.00	200.00	300.00
MONOSTYLA QUADRIDENTATA		200.00	100.00
TRIPLEUCHLANIS PLICATA	200.00	600.00	400.00
GROUP MEAN			2400.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	320.00	260.00	290.00
PLEUROXUS ADUNCUS	70.00	50.00	60.00
GROUP MEAN			350.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 20

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	250.00	330.00	290.00
GROUP MEAN			290.00
COPEPODA (CYCLOPOIDA)			
CYCLOPOID COPEPODITES	10.00		5.00
EUCYCLOPS AGILIS	10.00	10.00	10.00
GROUP MEAN			15.00
COPEPODA (GENERAL)			
NAUPLII	200.00		100.00
GROUP MEAN			100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 21

TAXLN	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS CONSTRICTA	600.00	4200.00	2400.00
GROUP MEAN			2400.00
ROTIFER			
BDELLOIDEA SPECIES	600.00		300.00
BRACHIONUS QUADRIDENTATUS	600.00	1200.00	900.00
COLURELLA ADRIATICA		600.00	300.00
LECANE LUNA	1800.00	600.00	1200.00
MONOGONONTA SPECIES		600.00	300.00
MONOSTYLA LUNARIS		600.00	300.00
GROUP MEAN			3300.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	300.00	200.00	250.00
PLEUROXUS ADUNCUS	50.00	20.00	35.00
GROUP MEAN			285.00
OSTRACODA			
OSTRACODA SPECIES	60.00	30.00	45.00
GROUP MEAN			45.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ARCELLOIDES	1000.00		500.00
CENTROPYXIS CONSTRICTA	10000.00	5000.00	7500.00
CILIATES UNIDENTIFIED	7000.00	2000.00	4500.00
VORTICELLA SPECIES	4000.00	2000.00	3000.00
GROUP MEAN			15500.00
GASTROTRICHA			
CHAETONOTUS SPECIES		1000.00	500.00
GROUP MEAN			500.00
ROTIFER			
BDELLOIDEA SPECIES	2000.00		1000.00
BRACHIONUS QUADRIDENTATUS	1000.00		500.00
MONOSTYLA BULLA	1000.00		500.00
TRIPLECHLANIS PLICATA	1000.00		500.00
GROUP MEAN			2500.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	430.00	220.00	325.00
PLEUROXUS ADUNCUS	10.00	40.00	25.00
GROUP MEAN			350.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 22

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACIDA SPECIES	20.00	40.00	30.00
GROUP MEAN			30.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 23

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		400.00	200.00
CENTROPYXIS ARCELLOIDES	200.00		100.00
CENTROPYXIS CONSTRICTA	800.00		400.00
CENTROPYXIS ECORNIS		200.00	100.00
PLAGIOPYXIS SPECIES	200.00		100.00
GROUP MEAN			900.00
ROTIFER			
LEPADELLA PATELLA		600.00	300.00
MONOGONONTA SPECIES	200.00		100.00
MONOSTYLA BULLA	200.00		100.00
MONOSTYLA LUNARIS	200.00		100.00
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			700.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00		200.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	1000.00	800.00	900.00
CENTROPYXIS ECORNIS	700.00	400.00	300.00
DIFFLUGIA ACUMINATA		200.00	100.00
DIFFLUGIA GRAMEN	200.00		100.00
DIFFLUGIA LEBES		400.00	200.00
PLAGIOPYXIS SPECIES		200.00	100.00
VORTICELLA SPECIES	400.00		200.00
GROUP MEAN			2300.00
ROTIFER			
CEPHALODELLA GIBBA	400.00		200.00
CEPHALODELLA SPECIES	200.00		100.00
EUCHLANIS DILATATA	1200.00	600.00	900.00
LEPADELLA PATELLA	800.00	600.00	700.00
MONOCONONTA SPECIES	800.00	200.00	500.00
GROUP MEAN			2400.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 24

TAXON	REP. A	REP B	MEAN
COPEPODA (GENERAL)			
NAUPLII	200.00	400.00	300.00
GROUP MEAN			300.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	800.00	800.00
CENTROPYXIS ARCELLOIDES	400.00	400.00	400.00
CENTROPYXIS CONSTRICTA	400.00	400.00	400.00
CENTROPYXIS ECORNIS	400.00	2200.00	1300.00
CILIATES UNIDENTIFIED	200.00		100.00
DIFFLUGIA LEBES	200.00	200.00	200.00
GROUP MEAN			3200.00
ROTIFER			
CEPHALODELLA GIBBA	200.00	200.00	200.00
LEPADELLA PATELLA	600.00	600.00	600.00
LEPADELLA RHOMBOIDES	200.00		100.00
MONOGONONTA SPECIES	800.00	1000.00	900.00
MONOSTYLA BULLA		200.00	100.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
GROUP MEAN			2000.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED		20.00	10.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 25

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES		20.00	10.00
GROUP MEAN			10.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 26

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	200.00	500.00
CENTROPYXIS ARCELLOIDES		600.00	300.00
CENTROPYXIS ECORNIS	400.00	400.00	400.00
CILIATES UNIDENTIFIED		200.00	100.00
DIFFLUGIA ACUMINATA	200.00		100.00
VORTICELLA SPECIES	200.00		100.00
GROUP MEAN			1500.00
ROTIFER			
ADELLOIDEA SPECIES	200.00		100.00
CEPHALODELLA GIBBA	200.00	400.00	300.00
EUCHLANIS DILATATA	200.00		100.00
LEPADELLA PATELLA	200.00	200.00	200.00
MONOGONONTA SPECIES	400.00	200.00	300.00
MONOSTYLA CLOSTEROCERCA	200.00		100.00
GROUP MEAN			1100.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 27

TAXLN	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00	200.00	400.00
CENTROPYXIS ARCELLOIDES	800.00	600.00	700.00
CENTROPYXIS CONSTRICTA	600.00	400.00	500.00
CENTROPYXIS ECORNIS	400.00		200.00
DIFFLUGIA ACUMINATA	400.00		200.00
DIFFLUCIA LEBES		200.00	100.00
GROUP MEAN			2100.00
ROTIFER			
PDELLEIDEA SPECIES	200.00		100.00
EUCHLANIS DILATATA	400.00	200.00	300.00
LEPADELLA PATELLA	200.00	200.00	200.00
MONOGONONTA SPECIES	400.00		200.00
GROUP MEAN			800.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00	600.00	600.00
CENTROPYXIS APCELLOIDES	1800.00		900.00
CENTROPYXIS CONSTRICTA	600.00	200.00	400.00
CENTROPYXIS ECORNIS	800.00	200.00	500.00
DIFFLUGIA GRAMEN	200.00		100.00
GROUP MEAN			2500.00
ROTIFER			
CEPHALODELLA GIBBA	400.00		200.00
COLURELLA ADRIATICA		200.00	100.00
LECANE LUNA		200.00	100.00
LEPADELLA PATELLA	200.00	400.00	300.00
LEPADELLA RHOMBOIDES		200.00	100.00
NOTHOLCA SQUAMULA	200.00		100.00
GROUP MEAN			900.00
CLADOCERA			
ALONA SPECIES	10.00	20.00	15.00
GROUP MEAN			15.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 28

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES		10.00	5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 29

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	800.00	1600.00	1200.00
CENTROPYXIS ARCELLOIDES	1600.00	400.00	1000.00
CENTROPYXIS CONSTRICTA	1800.00	600.00	1200.00
CENTROPYXIS ECORNIS	600.00	1000.00	800.00
DIFFLUGIA GRAMEN	200.00	400.00	300.00
ZOOTHAMNIUM SPECIES		1200.00	600.00
GROUP MEAN			5100.00
ROTIFER			
CEPHALODELLA GIBBA	200.00		100.00
LEPADELLA PATELLA	400.00		200.00
MONOCHAMTA SPECIES	800.00		400.00
GROUP MEAN			700.00
TARDIGRADA			
TARDIGRADA UNIDENTIFIED	20.00		10.00
GROUP MEAN			10.00
OSTRACODA			
OSTRACODA SPECIES	10.00		5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 30

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00	400.00	500.00
CENTROPYXIS ARCELLOIDES	600.00	200.00	400.00
CENTROPYXIS ECORNIS	800.00	600.00	700.00
GROUP MEAN			1600.00
ROTIFER			
CEPHALODELLA GIBBA	200.00		100.00
EUCHLANIS DILATATA	200.00		100.00
MONOGONONTA SPECIES	1000.00	800.00	900.00
MONOSTYLA BULLA	200.00	600.00	400.00
NOTHOLCA ACUMINATA		200.00	100.00
GROUP MEAN			1600.00
OSTRACODA			
OSTRACODA SPECIES	10.00		5.00
GROUP MEAN			5.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 31

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	1400.00	600.00	1000.00
CENTROPYXIS ARCELLOIDES	200.00	400.00	300.00
CENTROPYXIS CONSTRICTA		200.00	100.00
CENTROPYXIS ECORNIS	400.00	600.00	500.00
EPISTYLIS SPECIES		400.00	200.00
VORTICELLA SPECIES		600.00	300.00
ZOOTHAMNIUM SPECIES	400.00	2800.00	1600.00
GROUP MEAN			4000.00
ROTIFER			
CEPHALODELLA GIBBA		200.00	100.00
LEPADELLA PATELLA	800.00		400.00
LEPADELLA RHOMBOIDES		200.00	100.00
MICROCODONTA SPECIES	600.00	200.00	400.00
MONOSTYLA BULLA	400.00	200.00	300.00
MONOSTYLA LUNARIS	200.00	200.00	200.00
GROUP MEAN			1500.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 32

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	600.00		300.00
CENTROPYXIS ECORNIS	400.00	600.00	500.00
CILIATES UNIDENTIFIED	200.00		100.00
DIFFLUGIA GRAMEN		200.00	100.00
DIFFLUGIA LUBESTONA		200.00	100.00
EPISTYLIS SPECIES	200.00		100.00
GROUP MEAN			1200.00
ROTIFER			
CEPHALODELLA FORFICULA	200.00		100.00
CEPHALODELLA SPECIES	200.00		100.00
EUCHLANIS DILATATA	200.00		100.00
LEPADELLA PATELLA	200.00	600.00	400.00
MONOGONONTA SPECIES	200.00	800.00	500.00
MONOSTYLA BULLA	400.00	400.00	400.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
GROUP MEAN			1700.00
CLADOCERA			
ALONA CIRCUMFIMBRIATA	10.00		5.00
GROUP MEAN			5.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 33

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA		1200.00	600.00
CENTROPYXIS ARCELLOIDES		600.00	300.00
CENTROPYXIS CONSTRICTA	600.00	800.00	700.00
EPISTYLIS SPECIES		2600.00	1300.00
GROUP MEAN			2900.00
ROTIFER			
BDELLOIDEA SPECIES	400.00	800.00	600.00
CEPHALODELLA FORFICULA		200.00	100.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
LEPADELLA PATELLA		200.00	100.00
MONOGONONTA SPECIES	200.00	600.00	400.00
MONOSTYLA CLOSTEROCERCA		200.00	100.00
GROUP MEAN			1400.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	400.00	800.00	600.00
CENTROPYXIS ARCELLOIDES		400.00	200.00
CENTROPYXIS CONSTRICTA	600.00	1000.00	800.00
CENTROPYXIS ECORNIS	200.00		100.00
CILIATES UNIDENTIFIED		200.00	100.00
DIFFLUGIA ACUMINATA	200.00		100.00
DIFFLUGIA LEBES		200.00	100.00
EPISTYLIS SPECIES		2600.00	1300.00
VORTICELLA SPECIES		600.00	300.00
GROUP MEAN			3600.00
ROTIFER			
CEPHALODELLA GIBBA	200.00		100.00
CEPHALODELLA VOLVOCICOLA		200.00	100.00
LEPADELLA PATELLA	600.00	400.00	500.00
MONOGONONTA SPECIES	600.00	400.00	500.00
NOTHOLCA ACUMINATA	200.00		100.00
GROUP MEAN			1300.00

Appendix H-7-2 (Continued)

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 34

TAXON	REP A	REP B	MEAN
OSTRACODA			
OSTRACODA SPECIES	20.00		10.00
GROUP MEAN			10.00

COLLECTION METHOD - SUBMERSIBLE PUMP

SITE = 35

TAXON	REP A	REP B	MEAN
PROTOZOA			
CENTROPYXIS ACULEATA	1200.00	800.00	1000.00
CENTROPYXIS ARCELLOIDES	400.00	1200.00	800.00
CENTROPYXIS CONSTRICTA	1000.00	1000.00	1000.00
CENTROPYXIS ECORNIS	800.00	1200.00	1000.00
CILIATES UNIDENTIFIED	200.00	400.00	300.00
COTHURNIA SPECIES		200.00	100.00
DIFFLUGIA GRAMEN	400.00		200.00
GROUP MEAN			4400.00
ROTIFER			
LEPADELLA PATELLA	600.00	200.00	400.00
MONOGONONTA SPECIES	400.00	600.00	500.00
TRICHOTRIA POCILLUM		200.00	100.00
GROUP MEAN			1000.00
COPEPODA (HARPACTICOIDA)			
HARPACTICOID COPEPODITES		10.00	5.00
GROUP MEAN			5.00

2.4.4 PERIPHYTON

2.4.4 Periphyton

A list of algal taxa observed in the periphyton during the July - August 1976 sampling period is presented in Appendix H-8-1. A total of 77 taxa was observed in the July - August collections. Quantitative periphyton data from natural substrates are presented in Appendix H-8-2. The species list and density data from artificial substrates are presented in Appendices H-8-5 and H-8-6.

During the July - August period the most abundant taxa in the periphyton of the headwater stations were the diatoms Achnanthes minutissima, Gomphonema intricatum, Navicula cryptocephala, and the crysophyte Bicoeca lacustris. At the tract stations, the most abundant taxa included the diatoms Achnanthes minutissima, Navicula cryptocephala, Cymbella affinis, and the chrysophyte Bicoeca lacustris. In Yellow Creek, the dominant taxa were the diatoms Navicula cryptocephala, Nitzschia frustulum, Cyclotella meneghiniana, and the blue-green algae Calothrix spp., whereas in the White River, the dominant taxa included the diatoms Epithemia sorex and Amphora ovalis var. pediculus and the blue-green algae Calothrix spp.

The most abundant algal taxa collected from artificial substrates during the July - August sampling were Cyclotella meneghiniana, Mastogloia elliptica, and Nitzschia frustulum in Yellow Creek; and in the White River, Epithemia sorex and Cocconeis placentula were most abundant.

A list of taxa observed in the periphyton during the August - September 1976 sampling period is presented in Appendix H-9-1. A total of 104 taxa was observed in the August - September collections. Quantitative periphyton data from natural substrates are presented in Appendix H-9-2. The species list and densities data from artificial substrates are presented in Appendices H-9-5 and H-9-6.

During the August - September period, the most abundant taxa in the periphyton of the headwater stations were the blue-green algae Calothrix spp., the chrysophyte Bicoeca lacustris, and the diatoms Achnanthes minutissima and Nitzschia frustulum. At the tract stations, the most abundant taxa included the chrysophyte Bicoeca lacustris and the diatoms Achnanthes minutissima, Achnanthes lanceolata, and Navicula cryptocephala. In Yellow Creek, the dominant taxa were Navicula cryptocephala, Nitzschia frustulum, Nitzschia holsatica, and Nitzschia latens, whereas in the White River, the dominant taxa included the blue-green algae Calothrix spp. and the diatoms Amphora ovalis var. pediculus, Epithemia sorex, and Cocconeis pediculus.

The most abundant algal taxa collected from artificial substrates during the August - September sampling in the White River were the blue-green algae Calothrix spp. and the diatoms Cocconeis placentula, Gomphonema intricatum, and Epithemia sorex.

2.4.4 - Periphyton Data

PERIPHYTON RAW DATA

APPENDIX H-8-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

APPENDIX H-8-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.

COLLECTION METHOD - SCRAPINGS

CYANOPHYTA

- LYNGBYA SPP
- ANABAENA SPP
- NODULARIA SPUMIGENA
- CALOTHRIX SPP

CHLOROPHYTA

- CLADOPHORA SPP
- SPIROGYRA SPP

CHRYSOPHYTA

- BICOECA LACUSTRIS
- CHRYSIDIASTRUM OCELLATUM
- SKELETONEMA POTAMOS
- CYCLOTELLA MENEGHINIANA
- STEPHANODISCUS TENUIS
- DIATOMA VULGARE
- MERIDION CIRCULARE
- FRAGILARIA CONSTRUENS
- FRAGILARIA CROTONENSIS
- FRAGILARIA LEPTOSTAURON
- FRAGILARIA PINNATA
- FRAGILARIA VAUCHERIAE
- SYNEDRA AMPHICEPHALA
- SYNEDRA PULCHELLA

2.4.4.1043

Appendix H-8-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

SYNEDRA ULNA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES HAUCKIANA
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
MASTOGLOIA ELLIPTICA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
ANOMOEONEIS SPHAEROPHORA
NAVICULA ARVENSIS
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA MINIMA
NAVICULA MUTICA
NAVICULA OBLONGA
NAVICULA PELLICULOSA
NAVICULA PUPULA
NAVICULA PYGMAEA
NAVICULA RADIOSA

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

NAVICULA SALINARUM VAR. INTERMEDIA
NAVICULA SUBHAMULATA
NAVICULA TRIPUNCTATA
NAVICULA VAUCHERIAE
NAVICULA VIRIDULA
NAVICULA SP 1
GOMPHONEMA OLIVACEUM
GOMPHONEMA SP 1
AMPHIPRORA ALATA
EPITHEMIA SOREX
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA APICULATA
NITZSCHIA CAPITELLATA
NITZSCHIA CHASEI
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA

Appendix H-8-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

NITZSCHIA FONTICOLA
NITZSCHIA FRUSTULUM
NITZSCHIA GRACILIS
NITZSCHIA HOLSATICA
NITZSCHIA HUNGARICA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA MICROCEPHALA
NITZSCHIA PALEA
NITZSCHIA SIGMA
NITZSCHIA VERMICULARIS
CYMATOPLEURA SOLEA
SURIRELLA OVATA
SURIRELLA OVALIS
SURIRELLA STRIATULA

APPENDIX H-8-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1]

(Data are expressed as cells/mm^2)

COLLECTION METHOD - SCRAPINGS

SITE = 1

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP		3.00		1.00
GROUP MEAN				1.00
CHRYSOPHYTA				
BICUECA LACUSTRIS	429.00	1224.00	696.00	783.00
CUCCONEIS PLACENTULA			17.00	5.67
ACHNANTHES LANCEOLATA	10.00	3.00	13.00	8.67
ACHNANTHES MINUTISSIMA	79.00	109.00	185.00	124.33
GYROSIGMA ACUMINATUM		.03		.01
NAVICULA CRYPTOCEPHALA		13.00	3.00	5.33
NAVICULA MINIMA		3.00		1.00
NAVICULA PELLICULOSA	7.00			2.33
NAVICULA TRIPUNCTATA	3.00			1.00
NAVICULA SP 1		3.00		1.00
CALONEIS BACILLUM		7.00		2.33
PINNULARIA BREBISSONII	3.00			1.00
PINNULARIA VIRIDIS			.03	.01
AMPHORA OVALIS	3.00			1.00
AMPHORA OVALIS VAR. PEDICULUS	3.00			1.00
CYMBELLA VENTRICOSA			3.00	1.00

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 1

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA INTRICATUM	13.00		43.00	18.67
NITZSCHIA ACICULARIS		3.00	17.00	6.67
NITZSCHIA DISSIPATA		3.00		1.00
NITZSCHIA FRUSTULUM	7.00			2.33
NITZSCHIA LINEARIS	.06	.09	3.00	1.05
SURIRELLA OVALIS	.06	.03	.03	.04
GROUP MEAN				968.44

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 2

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	7.00			2.33
GROUP MEAN				2.33
CHRYSOPHYTA				
BICUECA LACUSTRIS	1177.00	1787.00	995.00	1319.67
ACHNANTHES LANCEOLATA	4.00	2.00	14.00	6.67
ACHNANTHES MINUTISSIMA	26.00	18.00	401.00	148.33
NAVICULA CRYPTOCEPHALA		2.00		.67
AMPHORA OVALIS VAR. PEDICULUS		2.00	5.00	2.33
GOMPHONEMA INTRICATUM	4.00	2.00		2.00
NITZSCHIA CAPITELLATA			9.00	3.00
NITZSCHIA FRUSTULUM			5.00	1.67
NITZSCHIA LINEARIS	.02		.72	.25
SURIRELLA OVALIS	.06	.02	.40	.16
GROUP MEAN				1484.74

COLLECTION METHOD - SCRAPINGS

SITE = 3

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP			413.00	137.67
GROUP MEAN				137.67
CHLOROPHYTA				
SPIROGYRA SPP	4.90			1.63
GROUP MEAN				1.63
CHRYSOPHYTA				
BICOECA LACUSTRIS		23.00	1461.00	494.67
FRAGILARIA CROTONENSIS			8.00	2.67
SYNEDRA AMPHICEPHALA			8.00	2.67
COCCONEIS PLACENTULA		9.00		3.00
ACHNANTHES LANCEOLATA		5.00	8.00	4.33
ACHNANTHES MINUTISSIMA	69.00	414.00	397.00	293.33
GYROSIGMA ACUMINATUM			.08	.03
ANOMOEONEIS SPHAEROPHORA	18.00	5.00		7.67
NAVICULA ARVENSIS		9.00		3.00
NAVICULA CRYPTOCEPHALA	279.00	180.00	165.00	208.00
NAVICULA PELLICULOSA			8.00	2.67
NAVICULA VIRIDULA		5.00		1.67

COLLECTION METHOD - SCRAPINGS

SITE = 3

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SP 1	9.00		3.00	4.00
NAVICULA SP 2	81.00	41.00	22.00	48.00
CALONEIS BACILLUM	18.00	5.00		7.67
PINNULARIA GLOBICEPS		5.00		1.67
AMPHORA MONTANA		5.00	3.00	2.67
AMPHORA OVALIS	9.00		5.00	4.67
AMPHORA SP 1	9.00			3.00
CYMBELLA MICROCEPHALA	36.00	5.00		13.67
GOMPHONEMA INTRICATUM		9.00	3.00	4.00
EPITHEMIA ZEBRA		.60		.20
NITZSCHIA APICULATA		5.00		1.67
NITZSCHIA CAPITELLATA	54.00	36.00		30.00
NITZSCHIA DENTICULA	9.00	23.00	11.00	14.33
NITZSCHIA DISSIPATA	18.00	14.00		10.67
NITZSCHIA FRUSTULUM	54.00	45.00	38.00	45.67
NITZSCHIA HOLSATICA			11.00	3.67
NITZSCHIA LATENS	9.00	14.00	3.00	8.67
NITZSCHIA LINEARIS	18.00	14.00	3.00	11.67
SURIRELLA OVATA		14.00		4.67
SURIRELLA OVALIS	63.00	18.00	5.00	28.67
GROUP MEAN				1272.89

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 4

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	612.00	207.00	9.00	276.00
GROUP MEAN				276.00
CHRYSOPHYTA				
PICCECA LACUSTRIS	1472.00	873.00	131.00	825.33
SYNEDRA AMPHICEPHALA		9.00		3.00
ACHNANTHES LANCEOLATA	18.00	18.00	9.00	15.00
ACHNANTHES MINUTISSIMA	693.00	180.00	95.00	322.67
GYROSIGMA ACUMINATUM	5.00	.08	.04	1.71
NAVICULA ARVENSIS		18.00		6.00
NAVICULA CRYPTOCEPHALA	324.00	261.00	158.00	247.67
NAVICULA PELLICULOSA	9.00			3.00
NAVICULA VIRIDULA			5.00	1.67
NAVICULA SP 2	36.00	27.00		21.00
CALONEIS BACILLUM	5.00			1.67
PINNULARIA VIRIDIS	.08			.03
AMPHORA OVALIS	14.00	9.00	5.00	9.33
AMPHORA OVALIS VAR. PEDICULUS	5.00			1.67
GOMPHONEMA INTRICATUM	14.00			4.67
RHOPALODIA GIBBERULA	5.00			1.67

COLLECTION METHOD - SCRAPINGS

SITE = 4

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYLINDROTHECA GRACILIS		9.00		3.00
NITZSCHIA DENTICULA	23.00	36.00	5.00	21.33
NITZSCHIA FRUSTULUM	32.00	9.00		13.67
NITZSCHIA LATENS		9.00	5.00	4.67
NITZSCHIA LINEARIS		1.44	.44	.63
SURIRELLA OVATA	5.00			1.67
SURIRELLA OVALIS		.16	.08	.08
GROUP MEAN				1511.11

COLLECTION METHOD - SCRAPINGS

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
CLADOPHORA SPP			44.00	14.67
GROUP MEAN				14.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA			66.00	22.00
COCCONEIS PEDICULUS		34.00		11.33
COCCONEIS PLACENTULA			110.00	36.67
ACHNANTHES LANCEOLATA	42.00		22.00	21.33
ACHNANTHES MINUTISSIMA	2296.00	3196.00	3080.00	2857.33
RHOICOSPHENIA CURVATA		17.00	44.00	20.33
GYROSIGMA ACUMINATUM			1.60	.53
PLEUROSIGMA DELICATULUM	70.00	51.00	220.00	113.67
NAVICULA ARVENSIS	28.00	17.00		15.00
NAVICULA CRYPTOCEPHALA	98.00	204.00	352.00	218.00
NAVICULA CUSPIDATA	.12		.40	.17
NAVICULA OBLONGA			1.20	.40
NAVICULA RADIOSA			22.00	7.33
NAVICULA TRIPUNCTATA	28.00			9.33
NAVICULA VIRIDULA		68.00	132.00	66.67
NAVICULA SP 1			66.00	22.00

COLLECTION METHOD - SCRAPINGS

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SP 2			66.00	22.00
AMPHORA OVALIS		17.00		5.67
AMPHORA OVALIS VAR. PEDICULUS			22.00	7.33
CYMBELLA MICROCEPHALA	28.00	17.00		15.00
CYMBELLA VENTRICOSA		17.00		5.67
GOMPHONEMA INTRICATUM	602.00	425.00	374.00	467.00
EPITHEMIA ZEBRA	28.00	34.00		20.67
RHOPALODIA GIBBA			.20	.07
RHOPALODIA GIBBERULA		17.00	110.00	42.33
HANTZSCHIA AMPHIOXYS	14.00			4.67
NITZSCHIA ACICULARIS		17.00		5.67
NITZSCHIA CAPITELLATA	14.00	17.00	44.00	25.00
NITZSCHIA DENTICULA	14.00			4.67
NITZSCHIA DISSIPATA		17.00		5.67
NITZSCHIA FRUSTULUM	84.00	85.00	198.00	122.33
NITZSCHIA HOLSATICA	84.00			28.00
NITZSCHIA LATENS	14.00	17.00		10.33
SURIRELLA OVATA		17.00	22.00	13.00
SURIRELLA OVALIS			22.00	7.33
GROUP MEAN				4234.51

COLLECTION METHOD - SCRAPINGS

SITE = 7

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
FICUECA LACUSTRIS	59.00	7.00	176.00	80.67
SKELETONEMA POTAMOS		4.00		1.33
CYCLOTELLA MENEGHINIANA		2.00		.67
STEPHANODISCUS TENUIS		4.00		1.33
COCCONEIS PLACENTULA		2.00		.67
ACHNANTHES LANCEOLATA	2.00	11.00	11.00	8.00
ACHNANTHES MINUTISSIMA	493.00	51.00	410.00	318.00
GYROSIGMA ACUMINATUM	.12	.20	.33	.22
PLEUROSIGMA DELICATULUM	.04	.04	.03	.04
NAVICULA CRYPTOCEPHALA	15.00	24.00	24.00	21.00
NAVICULA PELLICULOSA			3.00	1.00
NAVICULA VAUCHERIAE			3.00	1.00
NAVICULA SP 1	2.00			.67
NAVICULA SP 2	2.00	11.00		4.33
CALONEIS BACILLUM	2.00	2.00	5.00	3.00
GOMPHONEMA INTRICATUM	2.00	2.00		1.33
EPITHEMIA ZEBRA	.02			.01
RHOPALODIA GIBBERULA	2.00			.67
NITZSCHIA CAPITELLATA	2.00	4.00	5.00	3.67
NITZSCHIA DENTICULA	11.00	13.00	11.00	11.67

COLLECTION METHOD - SCRAPINGS

SITE = 7

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA FRUSTULUM	7.00	7.00	14.00	9.33
NITZSCHIA HOLSATICA		4.00	3.00	2.33
NITZSCHIA LINEARIS	2.00	.06	3.00	1.69
SURIRELLA OVATA	2.00			.67
SURIRELLA OVALIS	4.00	2.00	.18	2.06
GROUP MEAN				475.34

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 8

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP			7.00	2.33
GROUP MEAN				2.33
CHRYSOPHYTA				
PICDECA LACUSTRIS	558.00	177.00	677.00	470.67
CHRYSIDIASTRUM UCELLATUM		1.00		.33
SYNEDRA ULNA			.09	.03
ACHNANTHES LANCEOLATA	3.00	9.00	10.00	7.33
ACHNANTHES MINUTISSIMA	69.00	53.00	201.00	107.67
GYROSIGMA ACUMINATUM		.05	.06	.04
PLEUROSIGMA DELICATULUM	.03	.03		.02
NAVICULA ARVENSIS	13.00	1.00	7.00	7.00
NAVICULA CRYPTOCEPHALA	3.00	7.00	3.00	4.33
NAVICULA MUTICA	3.00			1.00
NAVICULA PELLICULOSA	23.00	10.00		11.00
NAVICULA VIRIDULA		3.00		1.00
NAVICULA SP 2		1.00		.33
PINNULARIA VIRIDIS	.03			.01
CYMBELLA AFFINIS			3.00	1.00
GOMPHONEMA INTRICATUM	7.00	10.00		5.67

COLLECTION METHOD - SCRAPINGS

SITE = B

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CAPITELLATA			3.00	1.00
NITZSCHIA CHASEI	3.00			1.00
NITZSCHIA DENTICULA		1.00		.33
NITZSCHIA FRUSTULUM	3.00	1.00	3.00	2.33
GROUP MEAN				622.10

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
BICOECA LACUSTRIS		1034.00	23.00	352.33
ACHNANTHES LANCEOLATA	9.00	4.00	7.00	6.67
ACHNANTHES MINUTISSIMA	122.00	229.00	142.00	164.33
GYROSIGMA ACUMINATUM	.28	.20	.18	.22
NAVICULA ARVENSIS	5.00			1.67
NAVICULA CRYPTOCEPHALA	23.00	119.00	139.00	93.67
NAVICULA PELLICULOSA		2.00	3.00	1.67
NAVICULA PUPULA		2.00		.67
NAVICULA TRIPUNCTATA			7.00	2.33
NAVICULA VAUCHERIAE		2.00		.67
NAVICULA VIRIDULA		4.00		1.33
NAVICULA SP 1	18.00			6.00
NAVICULA SP 2	9.00	9.00	13.00	10.33
AMPHORA MONTANA	5.00			1.67
AMPHORA OVALIS			7.00	2.33
AMPHORA OVALIS VAR. PEDICULUS			3.00	1.00
CYMBELLA AFFINIS		2.00	3.00	1.67
GOMPHONEMA INTRICATUM		2.00		.67
EPITHEMIA SOREX			10.00	3.33
NITZSCHIA ACICULARIS	5.00	13.00	7.00	8.33

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CAPITELLATA		4.00	20.00	8.00
NITZSCHIA DENTICULA	5.00			1.67
NITZSCHIA FRUSTULUM	27.00	18.00	30.00	25.00
NITZSCHIA LATENS	5.00	2.00	10.00	5.67
NITZSCHIA LINEARIS	2.24	7.00	3.00	4.08
SURIRELLA OVATA			7.00	2.33
GROUP MEAN				707.63

COLLECTION METHOD - SCRAPINGS

SITE = 13

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP		2924.00		974.67
GROUP MEAN				974.67
CHRYSOPHYTA				
PICOTECA LACUSTRIS	1802.00			600.67
MERIDION CIRCULARE	17.00	272.00	204.00	164.33
FRAGILARIA VAUCHERIAE	17.00	1020.00	1088.00	708.33
SYNEDRA ULNA		204.00	136.00	113.33
ACHNANTHES LANCEOLATA	34.00	476.00		170.00
ACHNANTHES MINUTISSIMA	1343.00	31008.00		10783.67
GYROSIGMA ACUMINATUM	.15	4.80	68.00	24.32
NAVICULA ARVENSIS	119.00	408.00	680.00	402.33
NAVICULA CRYPTOCEPHALA	850.00	8636.00		3162.00
NAVICULA MUTICA			68.00	22.67
NAVICULA PELLICULOSA	204.00			68.00
NAVICULA TRIPUNCTATA	17.00			5.67
NAVICULA VIRIDULA	119.00	1496.00		538.33
NAVICULA SP 1			136.00	45.33
NAVICULA SP 2	51.00		68.00	39.67
CALONEIS BACILLUM		68.00	68.00	45.33

COLLECTION METHOD - SCRAPINGS

SITE = 13

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS			68.00	22.67
CYMBELLA AFFINIS	748.00	12512.00		4420.00
CYMBELLA MICROCEPHALA		68.00		22.67
CYMBELLA VENTRICOSA	17.00	544.00	68.00	209.67
GOMPHONEMA INTRICATUM	578.00	1836.00		804.67
RHOPALODIA GIBBA		4.80	68.00	24.27
NITZSCHIA ACICULARIS		272.00	204.00	158.67
NITZSCHIA CAPITELLATA	51.00	2108.00	1972.00	1377.00
NITZSCHIA FRUSTULUM	136.00	952.00		362.67
NITZSCHIA HOLSATICA	85.00			28.33
NITZSCHIA LATENS	17.00	204.00	340.00	187.00
NITZSCHIA LINEARIS		748.00	272.00	340.00
NITZSCHIA MICROCEPHALA		68.00	68.00	45.33
SURIRELLA OVATA	17.00	1700.00	1156.00	957.67
SURIRELLA OVALIS		136.00		45.33
GROUP MEAN				25899.92

COLLECTION METHOD - SCRAPINGS

SITE = 14

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
NODULARIA SPUMIGENA	7.00			7.00
GROUP MEAN				7.00
CHLOROPHYTA				
CLADOPHORA SPP	14.00			14.00
GROUP MEAN				14.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	21.00			21.00
SYNEDRA AMPHICEPHALA	7.00			7.00
SYNEDRA ULNA	7.00			7.00
ACHNANTHES LANCEOLATA	7.00			7.00
ACHNANTHES MINUTISSIMA	1547.00			1547.00
NAVICULA CRYPTOCEPHALA	175.00			175.00
NAVICULA SALINARUM VAR. INTERMEDIA	7.00			7.00
NAVICULA TRIPUNCTATA	35.00			35.00
NAVICULA SP 2	7.00			7.00
CALONEIS VENTRICOSA	14.00			14.00
AMPHORA OVALIS	7.00			7.00
CYMBELLA MICROCEPHALA	14.00			14.00

COLLECTION METHOD - SCRAPINGS

SITE = 14

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
EPITHEMIA SOREX	7.00			7.00
RHOPALODIA GIBBA	49.00			49.00
RHOPALODIA GIBBERULA	63.00			63.00
NITZSCHIA CAPITELLATA	21.00			21.00
NITZSCHIA DENTICULA	112.00			112.00
NITZSCHIA FRUSTULUM	329.00			329.00
NITZSCHIA LATENS	14.00			14.00
SURIRELLA OVATA	7.00			7.00
SURIRELLA OVALIS	14.00			14.00
GROUP MEAN				2464.00

COLLECTION METHOD - SCRAPINGS

SITE = 19

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	22.00			22.00
GROUP MEAN				22.00
CHLOROPHYTA				
CLADOPHORA SPP	11.40			11.40
GROUP MEAN				11.40
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	66.00			66.00
SYNEDRA ULNA	22.00			22.00
ACHNANTHES LANCEOLATA	22.00			22.00
ACHNANTHES MINUTISSIMA	220.00			220.00
PLEUROSIGMA DELICATULUM	2.20			2.20
NAVICULA CRYPTOCEPHALA	176.00			176.00
RHOPALODIA GIBBA	1.00			1.00
NITZSCHIA CAPITELLATA	264.00			264.00
NITZSCHIA FRUSTULUM	1606.00			1606.00
NITZSCHIA LINEARIS	22.00			22.00
NITZSCHIA MICROCEPHALA	66.00			66.00
GROUP MEAN				2467.20

Appendix A-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	27.00	162.00	342.00	177.00
GROUP MEAN				177.00
CHLOROPHYTA				
CLADOPHORA SPP	1.28	72.00	2.00	25.09
GROUP MEAN				25.09
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	126.00	144.00	216.00	162.00
FRAGILARIA VAUCHERIAE		9.00		3.00
SYNEDRA PULCHELLA	9.00	9.00	36.00	18.00
ACHNANTHES LANCEOLATA		27.00		9.00
ACHNANTHES MINUTISSIMA	45.00	45.00	18.00	36.00
MASTOGLOIA ELLIPTICA	23.00	135.00	54.00	70.67
GYROSIGMA ACUMINATUM	.08	.32	.16	.19
NAVICULA ARVENSIS		72.00		24.00
NAVICULA CRYPTOCEPHALA	18.00	72.00	18.00	36.00
NAVICULA PYGMAEA	5.00			1.67
NAVICULA VIRIDULA		297.00		99.00
NAVICULA SP 2	5.00		27.00	10.67

2.4.4.1067

COLLECTION METHOD - SCRAPINGS

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA VENTRICOSA			9.00	3.00
CYMBELLA SP 1	18.00	27.00	18.00	21.00
GOMPHONEMA INTRICATUM	14.00	9.00		7.67
EPITHEMIA SOREX			9.00	3.00
RHOPALODIA GIBBERULA		9.00	9.00	6.00
NITZSCHIA CAPITELLATA			36.00	12.00
NITZSCHIA FONTICOLA		27.00		9.00
NITZSCHIA FRUSTULUM	441.00	1179.00	621.00	747.00
NITZSCHIA HOLSATICA	99.00	126.00	108.00	111.00
NITZSCHIA LATENS	41.00	36.00	36.00	37.67
NITZSCHIA MICROCEPHALA	9.00	18.00	18.00	15.00
SURIRELLA OVALIS	.12	.08	.08	.09
GROUP MEAN				1442.61

COLLECTION METHOD - SCRAPINGS

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
NODULARIA SPUMIGENA			21.00	7.00
CALOTHRIX SPP	98.00	72.00	224.00	131.33
GROUP MEAN				138.33
CHLOROPHYTA				
CLADOPHORA SPP		18.00	77.00	31.67
GROUP MEAN				31.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	98.00	162.00	210.00	156.67
SYNEDRA PULCHELLA			21.00	7.00
SYNEDRA ULNA		.08	14.00	4.69
ACHNANTHES LANCEOLATA		9.00		3.00
ACHNANTHES MINUTISSIMA	63.00		49.00	37.33
NAVICULA CRYPTOCEPHALA	140.00	63.00	231.00	144.67
NAVICULA CUSPIDATA			.12	.04
NAVICULA PELLICULOSA	14.00		14.00	9.33
NAVICULA TRIPUNCTATA			14.00	4.67

COLLECTION METHOD - SCRAPINGS

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA VIRIDULA	14.00			4.67
NAVICULA SP 1		9.00		3.00
NAVICULA SP 2		9.00	7.00	5.33
CALONEIS AMPHISBAENA	.12			.04
AMPHORA OVALIS VAR. PEDICULUS			7.00	2.33
CYMBELLA SP 1	42.00	18.00	14.00	24.67
GOMPHONEMA AFFINE		18.00	7.00	8.33
EPITHEMIA SOREX	7.00			2.33
RHOPALODIA GIBBA			.30	.10
RHOPALODIA GIBBERULA	21.00	27.00	28.00	25.33
NITZSCHIA APICULATA	7.00		7.00	4.67
NITZSCHIA CAPITELLATA	28.00		7.00	11.67
NITZSCHIA FRUSTULUM	532.00	1332.00	504.00	789.33
NITZSCHIA HULSATICA	35.00			11.67
NITZSCHIA HUNGARICA			7.00	2.33
NITZSCHIA LATENS		27.00	14.00	13.67
NITZSCHIA MICROCEPHALA		9.00	14.00	7.67
SURIRELLA OVATA	7.00	9.00	21.00	12.33
SURIRELLA OVALIS	7.00	.08	.06	2.38
SURIRELLA STRIATULA		.08	.12	.07
GROUP MEAN				1382.51

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 22

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP		342.00	477.00	273.00
GROUP MEAN				273.00
CHLOROPHYTA				
CLADOPHORA SPP		18.00	4.40	7.47
GROUP MEAN				7.47
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	21.00	36.00	45.00	34.00
SYNEDRA PULCHELLA		9.00	9.00	6.00
SYNEDRA ULNA		.08	18.00	6.03
ACHNANTHES LANCEOLATA	7.00			2.33
ACHNANTHES MINUTISSIMA		45.00	9.00	18.00
MASTOGLOIA ELLIPTICA		18.00	18.00	12.00
GYROSIGMA ACUMINATUM		.32	.16	.16
NAVICULA CRYPTOCEPHALA	105.00	234.00	162.00	167.00
NAVICULA PELLICULOSA	112.00	54.00	18.00	61.33
NAVICULA SALINARUM VAR. INTERMEDIA	7.00			2.33
NAVICULA TRIPUNCTATA	21.00			7.00
NAVICULA SP 1	21.00			7.00

COLLECTION METHOD - SCRAPINGS

SITE = 22

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SP 2	21.00		9.00	10.00
CYMBELLA AFFINIS			9.00	3.00
CYMBELLA SP 1	7.00		9.00	5.33
GOMPHONEMA AFFINE			9.00	3.00
GOMPHONEMA INTRICATUM		27.00		9.00
EPITHEMIA SOREX		9.00	9.00	6.00
RHOPALODIA GIBBERULA		9.00		3.00
NITZSCHIA APICULATA	7.00	18.00		8.33
NITZSCHIA CAPITELLATA		18.00		6.00
NITZSCHIA DISSIPATA	14.00			4.67
NITZSCHIA FRUSTULUM	3556.00	1215.00	2151.00	2307.33
NITZSCHIA HOLSATICA	35.00		9.00	14.67
NITZSCHIA SIGMA			.08	.03
SURIRELLA OVALIS		.08	.16	.08
GROUP MEAN				2703.63

COLLECTION METHOD - SCRAPINGS

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	204.00	176.00	1156.00	512.00
GROUP MEAN				512.00
CHLOROPHYTA				
CLADOPHORA SPP	34.00	44.00	102.00	60.00
GROUP MEAN				60.00
CHRYSOPHYTA				
COCCONEIS PEDICULUS	1564.00	330.00	3264.00	1719.33
COCCONEIS PLACENTULA	170.00	110.00	136.00	138.67
ACHNANTHES MINUTISSIMA	34.00	44.00		26.00
GYROSIGMA ACUMINATUM		.60		.20
NAVICULA ARVENSIS		22.00		7.33
NAVICULA CRYPTOCEPHALA	544.00	396.00	374.00	438.00
NAVICULA PELLICULOSA			68.00	22.67
NAVICULA SALINARUM VAR. INTERMEDIA			34.00	11.33
NAVICULA TRIPUNCTATA	238.00	198.00	136.00	190.67
NAVICULA SP 2	34.00			11.33
CALONEIS BACILLUM	34.00			11.33
AMPHORA OVALIS VAR. PEDICULUS	238.00	220.00	680.00	379.33

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA			34.00	11.33
GOMPHONEMA INTRICATUM	170.00	88.00	374.00	210.67
GOMPHONEMA OLIVACEUM			68.00	22.67
EPITHEMIA SOREX	1054.00	418.00	2720.00	1397.33
RHOPALODIA GIBBA		22.00		7.33
NITZSCHIA CAPITELLATA	34.00			11.33
NITZSCHIA CHASEI			34.00	11.33
NITZSCHIA DISSIPATA	136.00	154.00		96.67
NITZSCHIA FRUSTULUM	34.00		306.00	113.33
GROUP MEAN				4838.20

COLLECTION METHOD - SCRAPINGS

SITE = 24

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	1936.00	3400.00	918.00	2084.67
GROUP MEAN				2084.67
CHLOROPHYTA				
CLADOPHORA SPP	242.00	170.00	16.80	142.93
GROUP MEAN				142.93
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA			34.00	11.33
FRAGILARIA CONSTRUENS		34.00		11.33
COCCONEIS PEDICULUS	770.00	2040.00	680.00	1163.33
COCCONEIS PLACENTULA	132.00	34.00	136.00	100.67
ACHNANTHES MINUTISSIMA	22.00		204.00	75.33
NAVICULA CRYPTOCEPHALA	176.00	884.00	272.00	444.00
NAVICULA MINIMA			34.00	11.33
NAVICULA SALINARUM VAR. INTERMEDIA	22.00			7.33
NAVICULA TRIPUNCTATA	110.00	578.00	340.00	342.67
NAVICULA VIRIDULA		34.00		11.33
CALONEIS BACILLUM	22.00	34.00		18.67
AMPHORA OVALIS VAR. PEDICULUS	1562.00	1122.00	2074.00	1586.00

COLLECTION METHOD - SCRAPINGS

SITE = 24

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA	44.00			14.67
GOMPHONEMA INTRICATUM		68.00	68.00	45.33
EPITHEMIA SOREX	1562.00	2040.00	1394.00	1665.33
NITZSCHIA CAPITELLATA			68.00	22.67
NITZSCHIA CHASEI		102.00	136.00	79.33
NITZSCHIA DISSIPATA		34.00	340.00	124.67
NITZSCHIA FRUSTULUM	22.00	68.00	408.00	166.00
GROUP MEAN				5901.33

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 25

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	682.00	3842.00	3230.00	2584.67
GROUP MEAN				2584.67
CHLOROPHYTA				
CLADOPHORA SPP	66.00	15.30	68.00	49.77
GROUP MEAN				49.77
CHRYSOPHYTA				
DIATOMA VULGARE	22.00			7.33
FRAGILARIA LEPTOSTAURON			34.00	11.33
COCCONEIS PEDICULUS	264.00	306.00	816.00	462.00
ACHNANTHES MINUTISSIMA	22.00			7.33
NAVICULA CRYPTOCEPHALA	308.00	204.00	612.00	374.67
NAVICULA SALINARUM VAR. INTERMEDIA	44.00			14.67
NAVICULA TRIPUNCTATA	220.00	170.00	272.00	220.67
NAVICULA VIRIDULA	22.00			7.33
AMPHORA OVALIS VAR. PEDICULUS	1166.00	238.00	170.00	524.67
CYMBELLA SINUATA			102.00	34.00
GOMPHONEMA INTRICATUM		34.00	68.00	34.00
EPITHEMIA SOREX	176.00	6834.00	2618.00	3209.33

COLLECTION METHOD - SCRAPINGS

SITE = 25

TAXLN	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CHASEI	176.00		34.00	70.00
NITZSCHIA DISSIPATA	572.00		136.00	236.00
NITZSCHIA FRUSTULUM	88.00	34.00	68.00	63.33
GROUP MEAN				5276.67

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	2244.00	612.00	44.00	966.67
GROUP MEAN				966.67
CHLOROPHYTA				
CLADOPHORA SPP	6.60	34.00	44.00	28.20
GROUP MEAN				28.20
CHRYSOPHYTA				
FRAGILARIA LEPTOSTAURON			44.00	14.67
COCCONEIS PEDICULUS	34.00	272.00	1716.00	674.00
COCCONEIS PLACENTULA		136.00	176.00	104.00
ACHNANTHES MINUTISSIMA		102.00	22.00	41.33
GYROSIGMA ACUMINATUM	.60			.20
NAVICULA CRYPTOCEPHALA	646.00	476.00	220.00	447.33
NAVICULA MINIMA	34.00			11.33
NAVICULA SALINARUM VAR. INTERMEDIA	34.00		22.00	18.67
NAVICULA SUBHAMULATA	34.00			11.33
NAVICULA TRIPUNCTATA	272.00	306.00	110.00	229.33
NAVICULA VIRIDULA	136.00			45.33
AMPHORA OVALIS VAR. PEDICULUS	4250.00	714.00	264.00	1742.67

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA	374.00	238.00	22.00	211.33
CYMBELLA VENTRICOSA	68.00			22.67
GOMPHONEMA INTRICATUM	68.00	34.00	374.00	158.67
GOMPHONEMA OLIVACEUM	68.00	68.00	22.00	52.67
EPITHEMIA SOREX	1632.00	1820.00	440.00	1297.33
NITZSCHIA CAPITELLATA	34.00		22.00	18.67
NITZSCHIA CHASEI		34.00		11.33
NITZSCHIA DISSIPATA	272.00	170.00		147.33
NITZSCHIA FRUSTULUM	136.00	34.00	286.00	152.00
NITZSCHIA VERMICULARIS			.20	.07
CYMATOPLEURA SOLEA	.30			.10
SURIRELLA OVATA		34.00		11.33
GROUP MEAN				5423.70

COLLECTION METHOD - SCRAPINGS

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	5950.00	374.00	3400.00	3241.33
GROUP MEAN				3241.33
CHLOROPHYTA				
CLADOPHORA SPP	10.20	16.20	136.00	54.13
GROUP MEAN				54.13
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE		22.00		7.33
COCCONEIS PEDICULUS	34.00	154.00		62.67
COCCONEIS PLACENTULA			102.00	34.00
ACHNANTHES MINUTISSIMA			136.00	45.33
NAVICULA CRYPTOCEPHALA	578.00	132.00	408.00	372.67
NAVICULA MINIMA	34.00	44.00		26.00
NAVICULA PELLICULOSA		44.00	102.00	48.67
NAVICULA SALINARUM VAR. INTERMEDIA		44.00		14.67
NAVICULA TRIPUNCTATA	204.00	44.00	408.00	218.67
AMPHORA OVALIS VAR. PEDICULUS	5508.00	4246.00	6052.00	5268.67
CYMBELLA SINUATA	204.00	22.00	34.00	86.67
GOMPHONEMA INTRICATUM	34.00	44.00	102.00	60.00

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA OLIVACEUM		22.00	34.00	18.67
EPITHEMIA SOREX	612.00	220.00	1394.00	742.00
NITZSCHIA CHASEI	136.00	22.00	136.00	98.00
NITZSCHIA DISSIPATA	136.00	44.00	102.00	94.00
NITZSCHIA FRUSTULUM	238.00	44.00	68.00	116.67
GROUP MEAN				7314.67

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	946.00	2114.00	762.00	1274.00
GROUP MEAN				1274.00
CHLOROPHYTA				
CLADOPHORA SPP	22.00	4.32	22.00	16.11
GROUP MEAN				16.11
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		42.00		14.00
FRAGILARIA PINNATA			11.00	3.67
FRAGILARIA VAUCHERIAE			11.00	3.67
COCCONEIS PEDICULUS	286.00	182.00	235.00	234.33
COCCONEIS PLACENTULA		14.00	314.00	109.33
ACHNANTHES MINUTISSIMA	198.00		11.00	69.67
NAVICULA CRYPTOCEPHALA	550.00	98.00	34.00	227.33
NAVICULA SALINARUM VAR. INTERMEDIA		14.00	11.00	8.33
NAVICULA TRIPUNCTATA	154.00	28.00	22.00	68.00
CALONEIS BACILLUM	44.00			14.67
AMPHORA OVALIS VAR. PEDICULUS	1320.00	28.00	190.00	512.67
CYMBELLA AFFINIS			11.00	3.67

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA PROSTRATA	22.00			7.33
CYMBELLA SINUATA			22.00	7.33
GOMPHONEMA INTRICATUM		14.00	11.00	8.33
EPITHEMIA SOREX	3256.00	994.00	403.00	1551.00
NITZSCHIA CHASEI	22.00		11.00	11.00
NITZSCHIA DISSIPATA	110.00		34.00	48.00
NITZSCHIA FRUSTULUM	594.00	28.00	22.00	214.67
GROUP MEAN				3117.00

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	1360.00	3502.00	3264.00	2708.67
GROUP MEAN				2708.67
CHLOROPHYTA				
CLADOPHORA SPP		32.00	68.00	33.33
GROUP MEAN				33.33
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE	34.00			11.33
COCCONEIS PEDICULUS	136.00	408.00	442.00	328.67
COCCONEIS PLACENTULA	238.00	34.00		90.67
ACHNANTHES MINUTISSIMA	34.00	68.00	34.00	45.33
NAVICULA CRYPTOCEPHALA	68.00	782.00	136.00	328.67
NAVICULA MUTICA			34.00	11.33
NAVICULA SALINARUM VAR. INTERMEDIA		34.00		11.33
NAVICULA TRIPUNCTATA	34.00	136.00	68.00	79.33
NAVICULA VIRIDULA		34.00	34.00	22.67
NAVICULA SP 1	34.00			11.33
AMPHORA OVALIS VAR. PEDICULUS	136.00	782.00		306.00
CYMBELLA PROSTRATA			68.00	22.67

COLLECTION METHOD - SCRAPINGS

SITE = 29

TAXEN	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA		510.00		170.00
CYMBELLA VENTRICOSA		68.00		22.67
GOMPHONEMA INTRICATUM	170.00	136.00	544.00	283.33
GOMPHONEMA OLIVACEUM		34.00	68.00	34.00
EPITHEMIA SOREX	2244.00	9996.00	3706.00	5315.33
RHOPALODIA GIBBA		34.00		11.33
RHOPALODIA GIBBERULA		34.00		11.33
NITZSCHIA APICULATA		34.00		11.33
NITZSCHIA CHASEI			34.00	11.33
NITZSCHIA DISSIPATA		34.00		11.33
NITZSCHIA FRUSTULUM	34.00	102.00	102.00	79.33
NITZSCHIA GRACILIS			34.00	11.33
GROUP MEAN				7242.00

COLLECTION METHOD - SCRAPINGS

SITE = 30

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALLOTHRIX SPP	3536.00	22.00	204.00	1254.00
GROUP MEAN				1254.00
CHLOROPHYTA				
CLADOPHORA SPP	9.30	28.40	19.20	18.97
GROUP MEAN				18.97
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		22.00	34.00	18.67
DIATOMA VULGARE			34.00	11.33
FRAGILARIA PINNATA		44.00	102.00	48.67
COCCONEIS PEDICULUS	136.00	198.00	782.00	372.00
COCCONEIS PLACENTULA		44.00		14.67
ACHNANTHES MINUTISSIMA		22.00	34.00	18.67
NAVICULA CRYPTOCEPHALA	1224.00	286.00	612.00	707.33
NAVICULA MINIMA			34.00	11.33
NAVICULA SALINARUM VAR. INTERMEDIA			34.00	11.33
NAVICULA SUBHAMULATA		66.00		22.00
NAVICULA TRIPUNCTATA	340.00	396.00	442.00	392.67
NAVICULA VIRIDULA		22.00	34.00	18.67

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 30

TAXEN	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS	2312.00	3036.00	850.00	2066.00
CYMBELLA SINUATA	34.00		204.00	79.33
CYMBELLA VENTRICOSA	34.00			11.33
GOMPHONEMA INTRICATUM	34.00		68.00	34.00
GOMPHONEMA OLIVACEUM	102.00	22.00	68.00	64.00
EPITHEMIA SOREX	850.00	726.00	2346.00	1307.33
RHOPALODIA GIBBA			34.00	11.33
NITZSCHIA CHASEI	170.00	88.00	34.00	97.33
NITZSCHIA DISSIPATA		88.00	680.00	256.00
NITZSCHIA FRUSTULUM		132.00	204.00	112.00
GROUP MEAN				5686.00

Appendix F-3-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	918.00	1904.00	572.00	1131.33
GROUP MEAN				1131.33
CHLOROPHYTA				
CLADOPHORA SPP	51.00	21.24	66.00	46.08
GROUP MEAN				46.08
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE	34.00			11.33
COCCONEIS PEDICULUS	799.00	364.00	1034.00	732.33
COCCONEIS PLACENTULA	51.00		154.00	68.33
NAVICULA CRYPTOCEPHALA	510.00	154.00	242.00	302.00
NAVICULA MUTICA	17.00			5.67
NAVICULA SALINARUM VAR. INTERMEDIA	51.00			17.00
NAVICULA TRIPUNCTATA	221.00	140.00	308.00	223.00
AMPHORA OVALIS VAR. PEDICULUS	102.00	126.00	550.00	259.33
CYMBELLA SINUATA	17.00			5.67
CYMBELLA VENTRICOSA			22.00	7.33
GOMPHONEMA INTRICATUM	187.00	42.00	22.00	83.67
GOMPHONEMA OLIVACEUM			44.00	14.67

COLLECTION METHOD - SCRAPINGS

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
EPITHEMIA SUREX	1037.00	1288.00	1144.00	1156.33
NITZSCHIA CHASEI	17.00		88.00	35.00
NITZSCHIA DISSIPATA	51.00		110.00	53.67
NITZSCHIA FRUSTULUM	136.00		154.00	96.67
GROUP MEAN				3072.00

COLLECTION METHOD - SCRAPINGS

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	340.00	374.00	646.00	453.33
GROUP MEAN				453.33
CHLOROPHYTA				
CLADOPHORA SPP	28.95	50.40	46.20	41.85
GROUP MEAN				41.85
CHRYSOPHYTA				
COCCONEIS PEDICULUS	136.00	1294.00	136.00	522.00
COCCONEIS PLACENTULA	68.00		34.00	34.00
ACHNANTHES LANCEOLATA			34.00	11.33
NAVICULA CRYPTOCEPHALA	289.00	816.00	408.00	504.33
NAVICULA MINIMA		34.00		11.33
NAVICULA SALINARUM VAR. INTERMEDIA	34.00	102.00	34.00	56.67
NAVICULA SUBHAMULATA			102.00	34.00
NAVICULA TRIPUNCTATA	17.00	748.00	170.00	311.67
NAVICULA VIRIDULA		34.00		11.33
AMPHORA OVALIS VAR. PEDICULUS	663.00	612.00	7990.00	3088.33
CYMBELLA SINUATA	51.00	170.00	102.00	107.67
GOMPHONEMA INTRICATUM	85.00	68.00	34.00	62.33

2.4.4.1091

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA OLIVACEUM		102.00		34.00
EPITHEMIA SOREX	646.00	1972.00	1870.00	1496.00
EPITHEMIA ZEBRA		34.00		11.33
RHOPALODIA GIBBERULA		34.00		11.33
NITZSCHIA CAPITELLATA		34.00	34.00	22.67
NITZSCHIA CHASEI		34.00	102.00	45.33
NITZSCHIA DISSIPATA	34.00	476.00	34.00	181.33
NITZSCHIA FRUSTULUM	102.00	340.00	374.00	272.00
SURIRELLA OVATA		34.00		11.33
GROUP MEAN				6840.33

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 33

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	126.00	5.00	11.00	47.33
GROUP MEAN				47.33
CHLOROPHYTA				
CLADOPHORA SPP	.60	2.00	7.00	3.20
GROUP MEAN				3.20
CHRYSOPHYTA				
SYNEDRA ULNA			.02	.01
COCCONEIS PEDICULUS		5.00	7.00	4.00
COCCONEIS PLACENTULA	7.00	10.00	4.00	7.00
ACHNANTHES MINUTISSIMA	7.00	3.00	4.00	4.67
NAVICULA CRYPTOCEPHALA	49.00	10.00	13.00	24.00
NAVICULA PELLICULOSA	21.00			7.00
NAVICULA TRIPUNCTATA			2.00	.67
NAVICULA VIRIDULA			2.00	.67
AMPHORA OVALIS VAR. PEDICULUS	28.00	12.00	7.00	15.67
CYMBELLA AFFINIS		2.00	4.00	2.00
CYMBELLA SINUATA	7.00	10.00	4.00	7.00
GOMPHONEMA INTRICATUM	35.00	3.00	4.00	14.00

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 33

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA OLIVACEUM			2.00	.67
EPITHEMIA SOREX	28.00	5.00	4.00	12.33
NITZSCHIA CAPITELLATA	21.00	2.00		7.67
NITZSCHIA DISSIPATA	7.00	2.00	4.00	4.33
NITZSCHIA FRUSTULUM	7.00	10.00	4.00	7.00
GROUP MEAN				118.67

COLLECTION METHOD - SCRAPINGS

SITE = 34

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	2706.00	2091.00	1632.00	2143.00
GROUP MEAN				2143.00
CHLOROPHYTA				
CLADOPHORA SPP	198.00	34.00	204.00	145.33
GROUP MEAN				145.33
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE	44.00		17.00	20.33
SYNEDRA AMPHICEPHALA			17.00	5.67
SYNEDRA ULNA			17.00	5.67
COCCONEIS PEDICULUS	968.00	935.00	425.00	776.00
COCCONEIS PLACENTULA		34.00	51.00	28.33
ACHNANTHES MINUTISSIMA			17.00	5.67
NAVICULA CRYPTOCEPHALA	154.00	153.00	34.00	113.67
NAVICULA MUTICA	22.00			7.33
NAVICULA SALINARUM VAR. INTERMEDIA	22.00	17.00	34.00	24.33
NAVICULA TRIPUNCTATA		34.00	51.00	28.33
PINNULARIA BOREALIS			17.00	5.67
AMPHORA OVALIS VAR. PEDICULUS	44.00	136.00	68.00	82.67

COLLECTION METHOD - SCRAPINGS

SITE = 34

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA AFFINIS			17.00	5.67
CYMBELLA SINUATA	22.00		102.00	41.33
GOMPHONEMA INTRICATUM	286.00	119.00	85.00	163.33
GOMPHONEMA OLIVACEUM	22.00			7.33
EPITHEMIA SOREX	1254.00	1955.00	323.00	1177.33
NITZSCHIA DENTICULA			17.00	5.67
NITZSCHIA DISSIPATA	66.00	17.00	17.00	33.33
NITZSCHIA FRUSTULUM	44.00	17.00	17.00	26.00
GROUP MEAN				2563.67

COLLECTION METHOD - SCRAPINGS

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	518.00	408.00	1938.00	954.67
GROUP MEAN				954.67
CHLOROPHYTA				
CLADOPHORA SPP	14.00	7.05		7.02
GROUP MEAN				7.02
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE		17.00		5.67
COCCONEIS PEDICULUS	28.00	170.00	170.00	122.67
COCCONEIS PLACENTULA		17.00		5.67
ACHNANTHES MINUTISSIMA	14.00	34.00		16.00
NAVICULA CRYPTOCEPHALA	210.00	187.00	272.00	223.00
NAVICULA MINIMA			34.00	11.33
NAVICULA SALINARUM VAR. INTERMEDIA	14.00			4.67
NAVICULA TRIPUNCTATA	98.00	153.00	136.00	129.00
NAVICULA VIRIDULA		34.00	34.00	22.67
NAVICULA SP 4		34.00		11.33
CALONEIS BACILLUM			34.00	11.33
AMPHORA OVALIS VAR. PEDICULUS	2996.00	660.00	1938.00	1871.33

Appendix H-8-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA SINUATA	196.00	34.00	34.00	88.00
CYMBELLA VENTRICOSA	28.00			9.33
GOMPHONEMA INTRICATUM	14.00			4.67
GOMPHONEMA OLIVACEUM		17.00	34.00	17.00
EPITHEMIA SOREX	448.00	1309.00	782.00	846.33
NITZSCHIA CHASEI	70.00	85.00		51.67
NITZSCHIA DISSIPATA	84.00	34.00	102.00	73.33
NITZSCHIA FRUSTULUM	392.00	136.00	68.00	198.67
NITZSCHIA LINEARIS	14.00			4.67
GROUP MEAN				3728.33

APPENDIX H-8-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY-AUGUST 1976

APPENDIX H-8-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING [1]
RBOSP AQUATIC BASELINE STUDIES, JULY-AUGUST 1976

Station Replicate	Dry Weight (g)	Organic Weight (g)
1-A	0.0679	0.0099
1-B	0.0986	0.0299
1-C	0.1288	0.0192
2-A	0.0665	0.0082
2-B	0.0316	0.0077
2-C	0.0719	0.0224
3-A	0.1895	0.0217
3-B	0.0947	0.0118
3-C	0.2436	0.0232
4-A	0.1742	0.0284
4-B	0.1373	0.0136
4-C	0.1139	0.0167
5-A	0.2334	0.0268
5-B	2.2831	0.1096
5-C	0.6309	0.0684
7-A	0.1877	0.0262
7-B	0.2106	0.0153
7-C	0.4465	0.0707
8-A	0.2955	0.0422
8-B	0.1728	0.0263
8-C	0.1727	0.0210
9-A	0.0843	0.0121
9-B	0.0736	0.0091
9-C	0.0692	0.0077
13-A	0.3946	0.0654
13-B	0.2858	0.0463
13-C	1.3330	0.1445
14-A	0.2855	0.0322
19-A	0.7624	0.1131
20-A	0.3583	0.0521
20-B	0.6348	0.1316
20-C	0.3198	0.0610
21-A	2.5596	0.8047
21-B	0.9697	0.1773
21-C	0.8394	0.1746
22-A	0.4625	0.0928
22-B	0.2940	0.0402

[1]Stations 6, 10-12, and 15-18 were dry at the time of sampling.

Station Replicate	Dry Weight (g)	Organic Weight (g)
22-C	0.2476	0.0641
23-A	23.0985	1.5111
23-B	6.8044	0.4571
23-C	11.0974	0.6161
24-A	7.9277	0.7840
24-B	9.6468	0.7278
24-C	5.9465	0.4041
25-A	3.7224	0.3100
25-B	7.3020	0.4819
25-C	5.0848	0.3996
26-A	7.1641	0.5014
26-B	2.0246	0.2144
26-C	7.0312	0.5654
27-A	7.5671	0.3816
27-B	1.5253	0.1994
27-C	1.2896	0.1368
28-A	3.2647	0.2094
28-B	1.3865	0.1584
28-C	1.5771	0.1437
29-A	4.4347	0.4121
29-B	2.5436	0.3227
29-C	8.1804	0.6388
30-A	5.7379	0.4689
30-B	8.6663	0.6959
30-C	4.8420	0.3548
31-A	3.8693	0.4034
31-B	2.6170	0.3281
31-C	5.6413	0.6150
32-A	5.6422	0.4177
32-B	0.6637	0.0557
32-C	6.3658	0.4685
33-A	0.1719	0.0345
33-B	0.3541	0.0252
33-C	0.5478	0.0511
34-A	2.5383	0.3279
34-B	1.8477	0.2530
34-C	1.8917	0.3613
35-A	8.9668	0.5448
35-B	2.5734	0.1985
35-C	2.1219	0.2468

APPENDIX H-8-4

CHLOROPHYLL a OF PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES JULY-AUGUST 1976

APPENDIX H-8-4

CHLOROPHYLL a OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES, JULY-AUGUST 1976[1]
(Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
1	0.0007	0.0008	0.0008
2	0.0002	0.0004	0.0018
3	0.0010	0.0005	0.0002
4	0.0009	0.0007	0.0013
5	0.0014	0.0015	0.0013
7	0.0006	0.0001	0.0005
8	0.0003	0.0013	0.0016
9	0.0001	0.0003	0.0003
13	0.0008	0.0005	0.0010
14	0.0004	--	--
19	0.0031	--	--
20	0.0008	0.0005	0.0007
21	0.0010	0.0034	0.0020
22	0.0037	0.0049	0.0016
23	0.0106	0.0123	0.0123
24	0.0093	0.0082	0.0075
25	0.0100	0.0110	0.0155
26	0.0094	0.0096	0.0086
27	0.0061	0.0080	0.0101
28	0.0032	0.0053	0.0063
29	0.0125	0.0106	0.0053
30	0.0147	0.0056	0.0101
31	0.0106	0.0093	0.0132
32	0.0116	0.0131	0.0153
33	0.0002	0.0002	0.0002
34	0.0023	0.0061	0.0075
35	0.0072	0.0120	0.0060

[1]Stations 6,10-12, and 15 - 19 were dry at the time of sampling.

APPENDIX H-8-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-8-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

CYANOPHYTA

Lyngbya spp.
Anabaena spp.
Calothrix spp.

CHLOROPHYTA

Cladophora spp.
Spirogyra spp.

CHRYSOPHYTA

Cyclotella meneghiniana
Diatoma vulgare
Synedra pulchella
Synedra ulna
Cocconeis pediculus
Cocconeis placentula
Achnanthes hauckiana
Achnanthes lanceolata
Achnanthes minutissima
Mastogloia elliptica
Gyrosigma acuminatum
Navicula cryptocephala
Navicula pelliculosa
Navicula salinarum var. *intermedia*
Navicula tripunctata
Navicula viridula
Navicula sp. 2
Amphora montana
Amphora ovalis var. *pediculus*
Caloneis amphisbaena
Cymbella sinuata
Cymbella sp. 1
Gomphonema affine
Gomphonema intericatum
Gomphonema olivaceum
Gomphonema sp. 1
Amphiphora alata

CHRYSOPHYTA

Epithemia sorex
Epithemia zebra
Rhopalodia gibba
Rhopalodia gibberula
Cylindrotheca gracilis
Nitzschia apiculata
Nitzschia capitellata
Nitzschia chasei
Nitzschia dissipata
Nitzschia frustulum
Nitzschia holsatica
Nitzschia hungarica
Nitzschia latens
Nitzschia microcephala
Nitzschia palea
Surirella ovata

APPENDIX H-8-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE
PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-8-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.
(Data are expressed as cells/mm^2)

SITE = 80

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP		2.00		.67
ANABAENA SPP		26.00	9.00	11.67
CALOTHRIX SPP	2.00	3.00		1.67
GROUP MEAN				14.00
CHLOROPHYTA				
CLADOPHORA SPP		.30		.10
SPIROGYRA SPP			.30	.10
GROUP MEAN				.20
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	3.00	20.00	8.00	10.33
SYNEDRA PULCHELLA		2.00		.67
SYNEDRA ULNA	2.00			.67
ACHNANTHES HAUCKIANA		4.00		1.33
ACHNANTHES LANCEOLATA			1.00	.33
ACHNANTHES MINUTISSIMA	4.00			1.33
MASTOGLOIA ELLIPTICA	10.00	105.00	40.00	51.67
GYROSIGMA ACUMINATUM		.02	.02	.01
NAVICULA CRYPTOCEPHALA	8.00	3.00	1.00	4.00

Appendix H-8-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 60

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA		2.00		.67
AMPHORA MONTANA	2.00			.67
AMPHORA OVALIS VAR. PEDICULUS		2.00		.67
CYMBELLA SP 1		8.00	2.00	3.33
GOMPHONEMA AFFINE		8.00	1.00	3.00
GOMPHONEMA INTRICATUM	3.00			1.00
RHOPALODIA GIBBA	.03	.20	.01	.08
RHOPALODIA GIBBERULA		3.00	1.00	1.33
NITZSCHIA CAPITELLATA	4.00	3.00	1.00	2.67
NITZSCHIA FRUSTULUM	46.00	126.00	28.00	66.67
NITZSCHIA HOLSATICA	9.00	18.00	4.00	10.33
NITZSCHIA LATENS		4.00	1.00	1.67
NITZSCHIA MICROCEPHALA	2.00	9.00	2.00	4.33
NITZSCHIA PALEA			2.00	.67
SURIRELLA OVATA		2.00		.67
GROUP MEAN				160.09

Appendix H-8-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 81

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP		3.00	15.00	6.00
GROUP MEAN				6.00
CHLOROPHYTA				
CLADOPHORA SPP	1.40	4.00		1.80
GROUP MEAN				1.80
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	16.00	9.00	9.00	11.33
SYNEDRA PULCHELLA	3.00	3.00	2.00	2.67
ACHNANTHES HAUCKIANA			12.00	4.00
ACHNANTHES LANCEOLATA		2.00		.67
ACHNANTHES MINUTISSIMA	2.00	4.00		2.00
MASTOGLOIA ELLIPTICA	2.00	3.00	3.00	2.67
GYROSIGMA ACUMINATUM	.10	.20		.10
NAVICULA CRYPTOCEPHALA	4.00	6.00	4.00	4.67
NAVICULA VIRIDULA		2.00		.67
NAVICULA SP 2		3.00		1.00
CALONEIS AMPHISBAENA			.01	.00
CYMBELLA SP 1			3.00	1.00

Appendix H-8-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 81

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA AFFINE	14.00		2.00	5.33
AMPHIPEORA ALATA		2.00		.67
RHOPALODIA GIBBA	.01		.01	.01
CYLINDROTHECA GRACILIS	2.00			.67
NITZSCHIA APICULATA		2.00	3.00	1.67
NITZSCHIA CAPITELLATA			3.00	1.00
NITZSCHIA FRUSTULUM	4.00	33.00	273.00	103.33
NITZSCHIA HOLSATICA	4.00		20.00	8.00
NITZSCHIA LATENS	4.00		8.00	4.00
SURIRELLA OVATA		4.00		1.33
GROUP MEAN				156.78

Appendix H-8-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 95

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	7.00			7.00
GROUP MEAN				7.00
CHLOROPHYTA				
CLADOPHORA SPP	8.00			8.00
GROUP MEAN				8.00
CHRYSOPHYTA				
DIATOMA VULGARE	2.00			2.00
COCCONEIS PEDICULUS	13.00			13.00
COCCONEIS PLACENTULA	79.00			79.00
ACHNANTHES LANCEOLATA	11.00			11.00
ACHNANTHES MINUTISSIMA	59.00			59.00
NAVICULA CRYPTOCEPHALA	7.00			7.00
NAVICULA PELLICULOSA	2.00			2.00
NAVICULA SALINARUM VAR. INTERMEDIA	2.00			2.00
NAVICULA TRIPUNCTATA	4.00			4.00
AMPHORA OVALIS VAR. PEDICULUS	11.00			11.00
CYMBELLA SINUATA	4.00			4.00
GOMPHONEMA INTRICATUM	66.00			66.00

Appendix H-8-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 95

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA OLIVACEUM	11.00			11.00
GOMPHONEMA SP 1	2.00			2.00
EPITHEMIA SOREX	154.00			154.00
EPITHEMIA ZEBRA	4.00			4.00
NITZSCHIA CAPITELLATA	2.00			2.00
NITZSCHIA CHASEI	2.00			2.00
NITZSCHIA DISSIPATA	2.00			2.00
NITZSCHIA FRUSTULUM	42.00			42.00
NITZSCHIA HUNGARICA	2.00			2.00
GROUP MEAN				481.00

APPENDIX H-8-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES JULY - AUGUST 1976

APPENDIX H-8-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY-AUGUST 1976

Station Replicate	Dry Weight (g)	Organic Weight (g)
20-A	0.0994	0.0107
20-B	0.0911	0.0089
20-C	0.0923	0.0085
21-A	0.0932	0.0096
21-B	0.1291	0.0136
21-C	0.1632	0.0163
35-A	0.2379	0.0173

APPENDIX H-8-8

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES
DURING RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-8-8

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976
(Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
20	0.0002	0.0012	0.0002
21	0.0001	0.0002	0.0005
35	0.0023		

APPENDIX H-9-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1976

APPENDIX H-9-1

ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.

COLLECTION METHOD - SCRAPINGS

CYANOPHYTA

- LYNGBYA SPP
- OSCILLATORIA SPP
- SCHIZOTHRIX SPP
- ANABAENA SPP
- CALOTHRIX SPP

CHLOROPHYTA

- STIGEOCLONIUM SPP
- CLADOPHORA SPP
- OEDOGONIUM SPP
- SPIROGYRA SPP

CHRYSOPHYTA

- BICOECA LACUSTRIS
- CHRYSIDIASTRUM OCELLATUM
- THALASSIOSIRA FLUVIATILIS
- CYCLOTELLA MENEGHINIANA
- DIATOMA VULGARE
- MERIDION CIRCULARE
- FRAGILARIA CONSTRUENS
- FRAGILARIA LEPTOSTAURON
- FRAGILARIA PINNATA
- FRAGILARIA VAUCHERIAE
- SYNEDRA AMPHICEPHALA

Appendix H-9-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

SYNEDRA PULCHELLA
SYNEDRA ULNA
COCCONEIS PEDICULUS
COCCONEIS PLACENTULA
ACHNANTHES CLEVEI
ACHNANTHES LANCEOLATA
ACHNANTHES MINUTISSIMA
RHOICOSPHENIA CURVATA
MASTOGLOIA ELLIPTICA
AMPHIPLEURA PELLUCIDA
GYROSIGMA ACUMINATUM
PLEUROSIGMA DELICATULUM
STAURONEIS SMITHII
ANOMOEONEIS SPHAEROPHORA
NAVICULA ARVENSIS
NAVICULA CAPITATA
NAVICULA CRYPTOCEPHALA
NAVICULA CUSPIDATA
NAVICULA MINIMA
NAVICULA MUTICA
NAVICULA OBLONGA

Appendix H-9-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

NAVICULA PELLICULOSA
NAVICULA PUPULA
NAVICULA RADIOSA
NAVICULA SALINARUM
NAVICULA SALINARUM VAR. INTERMEDIA
NAVICULA SUBHAMULATA
NAVICULA TRIPUNCTATA
NAVICULA VAUCHERIAE
NAVICULA VIRIDULA
NAVICULA SP 2
CALONEIS AMPHISBAENA
CALONEIS BACILLUM
CALONEIS VENTRICOSA
PINNULARIA VIRIDIS
AMPHORA MONTANA
AMPHORA OVALIS
AMPHORA OVALIS VAR. PEDICULUS
AMPHORA SP 1
CYMBELLA AFFINIS
CYMBELLA MICROCEPHALA
CYMBELLA SINUATA

Appendix H-9-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

CYMBELLA VENTRICOSA
CYMBELLA SP 1
GOMPHONEMA AFFINE
GOMPHONEMA GRACILE
GOMPHONEMA INTRICATUM
GOMPHONEMA OLIVACEUM
GOMPHONEMA PARVULUM
GOMPHONEMA VENTRICOSUM
GOMPHONEMA SP 1
AMPHIPRORA ALATA
EPITHEMIA SOREX
EPITHEMIA ZEBRA
RHOPALODIA GIBBA
RHOPALODIA GIBBERULA
CYLINDROTHECA GRACILIS
HANTZSCHIA AMPHIOXYS
NITZSCHIA ACICULARIS
NITZSCHIA AMPHIBIA
NITZSCHIA APICULATA
NITZSCHIA BERGII
NITZSCHIA CAPITATA

Appendix H-9-1 (Continued)

COLLECTION METHOD - SCRAPINGS

CHRYSOPHYTA

NITZSCHIA CAPITELLATA
NITZSCHIA CHASEI
NITZSCHIA DENTICULA
NITZSCHIA DISSIPATA
NITZSCHIA FONTICOLA
NITZSCHIA FRUSTULUM
NITZSCHIA GRACILIS
NITZSCHIA HOLSATICA
NITZSCHIA HUNGARICA
NITZSCHIA IGNORATA
NITZSCHIA LATENS
NITZSCHIA LINEARIS
NITZSCHIA MICROCEPHALA
NITZSCHIA PALEA
NITZSCHIA SIGMA
NITZSCHIA SIGMOIDEA
CYMATOPLEURA SOLEA
SURIRELLA ANGUSTATA
SURIRELLA OVATA
SURIRELLA OVALIS
SURIRELLA STRIATULA

APPENDIX H-9-2

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST- SEPTEMBER 1976

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.
(Data are expressed as cells/mm^2)
COLLECTION METHOD - SCRAPINGS

SITE = 1

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
OSCILLATORIA SPP	2.00			.67
GROUP MEAN				.67
CHRYSOPHYTA				
BICOECA LACUSTRIS		4029.00	109.00	1379.33
MERIDION CIRCULARE		17.00		5.67
FRAGILARIA VAUCHERIAE		17.00		5.67
ACHNANTHES LANCEOLATA	9.00	187.00	3.00	66.33
ACHNANTHES MINUTISSIMA	145.00	2091.00	158.00	798.00
GYROSIGMA ACUMINATUM	.10	68.00	3.00	23.70
STAURONEIS SMITHII			3.00	1.00
NAVICULA CRYPTOCEPHALA		204.00		68.00
CALONEIS BACILLUM		17.00		5.67
PINNULARIA VIRIDIS		2.00		.67
CYMBELLA VENTRICOSA			3.00	1.00
GOMPHONEMA INTRICATUM		102.00	20.00	40.67
GOMPHONEMA OLIVACEUM	24.00			8.00
NITZSCHIA ACICULARIS		102.00	7.00	36.33
NITZSCHIA CAPITELLATA	4.00	119.00		41.00
NITZSCHIA FRUSTULUM	2.00	68.00	10.00	26.67

[1]Stations 6, 10 - 12, and 15-19 were dry at the time of sampling.

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = I

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA LINEARIS		136.00	3.00	46.33
SURIRELLA ANGUSTATA			3.00	1.00
SURIRELLA OVALIS	.02	136.00		45.34
GROUP MEAN				2600.37

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 2

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	18.00			6.00
GROUP MEAN				6.00
CHRYSOPHYTA				
BICOECA LACUSTRIS	1638.00	480.00		706.00
MERIDION CIRCULARE	9.00			3.00
FRAGILARIA VAUCHERIAE	18.00		18.00	12.00
SYNEDRA AMPHICEPHALA	9.00	10.00	36.00	18.33
ACHNANTHES LANCEOLATA	18.00	14.00	99.00	43.67
ACHNANTHES MINUTISSIMA	522.00	154.00	468.00	381.33
STAURONEIS SMITHII			9.00	3.00
NAVICULA ARVENSIS	117.00		9.00	42.00
NAVICULA CRYPTOCEPHALA	27.00	5.00	126.00	52.67
NAVICULA PELLICULOSA		5.00		1.67
NAVICULA SP 2			9.00	3.00
AMPHORA OVALIS	9.00	10.00	9.00	9.33
CYMBELLA AFFINIS			18.00	6.00
CYMBELLA VENTRICOSA			9.00	3.00
GOMPHONEMA OLIVACEUM		10.00		3.33
NITZSCHIA FRUSTULUM	45.00	24.00	27.00	32.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 2

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA HOLSATICA		14.00	198.00	70.67
NITZSCHIA LATENS			198.00	66.00
NITZSCHIA LINEARIS	.08	2.00	.60	.89
NITZSCHIA PALEA	27.00			9.00
SURIRELLA OVALIS	.16	.20		.12
GROUP MEAN				1467.01

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 3

TAXLN	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	7.00	18.00		8.33
GROUP MEAN				8.33
CHRYSOPHYTA				
EUNOTIA LACUSTRIS	959.00		924.00	627.67
SYNEDRA AMPHICEPHALA	7.00			2.33
COCCONEIS PEDICULUS		9.00		3.00
ACHNANTHES LANCEOLATA	14.00	36.00		16.67
ACHNANTHES MINUTISSIMA	210.00	1908.00	270.00	796.00
AMPHORA SPHAEROPHORA	35.00	108.00	30.00	57.67
NAVICULA ARVENSIS	7.00		12.00	6.33
NAVICULA CRYPTOCEPHALA	133.00	270.00	108.00	170.33
NAVICULA MINIMA		9.00		3.00
NAVICULA PELLICULOSA		36.00		12.00
NAVICULA VIRIDULA			12.00	4.00
NAVICULA SP 1		18.00	6.00	8.00
NAVICULA SP 2	21.00	45.00	48.00	38.00
AMPHORA MONTANA	7.00	90.00		32.33
AMPHORA OVALIS	7.00	18.00		8.33
AMPHORA OVALIS VAR. PEDICULUS			6.00	2.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 3

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA SP 1		54.00		18.00
CYMBELLA AFFINIS	14.00			4.67
GOMPHONEMA INTRICATUM	49.00	72.00		40.33
EPITHEMIA SOREX		9.00		3.00
RHOPALODIA GIBBERULA		27.00		9.00
NITZSCHIA CAPITELLATA	49.00	63.00	6.00	39.33
NITZSCHIA DENTICULA		63.00		21.00
NITZSCHIA FRUSTULUM	42.00	1143.00	30.00	405.00
NITZSCHIA LATENS			12.00	4.00
NITZSCHIA LINEARIS	28.00	72.00	18.00	39.33
NITZSCHIA PALEA	21.00			7.00
SURIRELLA OVALIS	35.00	45.00	24.00	34.67
GROUP MEAN				2413.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 4

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	14.00	11.00		8.33
GROUP MEAN				8.33
CHLOROPHYTA				
STIGEOCLONIUM SPP	1.00			.33
GROUP MEAN				.33
CHRYSOPHYTA				
BICOECA LACUSTRIS	138.00		3024.00	1054.00
ACHNANTHES LANCEOLATA	21.00		7.00	9.33
ACHNANTHES MINUTISSIMA	77.00	302.00	119.00	166.00
GYROSIGMA ACUMINATUM	.10	.10	.24	.15
NAVICULA CRYPTOCEPHALA	42.00	146.00	140.00	109.33
NAVICULA PELLICULOSA		11.00	14.00	8.33
NAVICULA SP 1	12.00	11.00		7.67
NAVICULA SP 2	12.00	45.00	14.00	23.67
AMPHORA OVALIS	7.00			2.33
CYMBELLA AFFINIS		11.00		3.67
GOMPHONEMA INTRICATUM		22.00	7.00	9.67
EPITHEMIA SOREX		11.00		3.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 4

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
RHOPALODIA GIBBERULA	7.00			2.33
NITZSCHIA ACICULARIS		11.00		3.67
NITZSCHIA CAPITELLATA	7.00		7.00	4.67
NITZSCHIA DENTICULA		123.00	14.00	45.67
NITZSCHIA FRUSTULUM	49.00	56.00	63.00	56.00
NITZSCHIA LINEARIS		22.00	.50	7.50
NITZSCHIA PALEA	9.00			3.00
SURIRELLA OVALIS	7.00			2.33
GROUP MEAN				1522.98

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP	398.00	77.00	56.00	177.00
OSCILLATORIA SPP			7.00	2.33
CALOTHRIX SPP	1870.00	707.00	252.00	943.00
GROUP MEAN				1122.33
CHRYSOPHYTA				
COCCONEIS PEDICULUS		35.00		11.67
COCCONEIS PLACENTULA	34.00	21.00	7.00	20.67
ACHNANTHES LANCEOLATA	68.00	7.00		25.00
ACHNANTHES MINUTISSIMA	340.00	154.00	406.00	300.00
GYROSIGMA ACUMINATUM			.06	.02
PLEUROSIGMA DELICATULUM	34.00	21.00	6.00	20.33
NAVICULA ARVENSIS	34.00			11.33
NAVICULA CRYPTOCEPHALA	102.00	91.00	56.00	83.00
NAVICULA RADIOSA			7.00	2.33
NAVICULA SALINARUM			7.00	2.33
NAVICULA TRIPUNCTATA		7.00		2.33
NAVICULA VAUCHERIAE	34.00			11.33
NAVICULA SP 1	34.00	7.00		13.67
NAVICULA SP 2		7.00		2.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 5

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CALONEIS BACILLUM	34.00			11.33
PINNULARIA VIRIDIS		7.00		2.33
CYMBELLA MICROCEPHALA	34.00	28.00	77.00	46.33
GOMPHONEMA INTRICATUM	204.00	21.00		75.00
GOMPHONEMA SP 1			7.00	2.33
EPITHEMIA ZEBRA	374.00	91.00	56.00	173.67
RHOPALODIA GIBBA	1.00	21.00	.06	7.35
RHOPALODIA GIBBERULA	68.00	42.00		36.67
NITZSCHIA ACICULARIS	136.00			45.33
NITZSCHIA FRUSTULUM	68.00	77.00	7.00	50.67
NITZSCHIA HOLSATICA	238.00	28.00		88.67
NITZSCHIA HUNGARICA		7.00		2.33
SURIRELLA OVATA	102.00		14.00	38.67
SURIRELLA OVALIS		7.00	.06	2.35
GROUP MEAN				108 39

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 7

TAXLN	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP		112.00		37.33
GROUP MEAN				37.33
CHRYSOPHYTA				
EPICOCCA LACUSTRIS		112.00	140.00	84.00
CHRYSIDIASTRUM OCELLATUM		14.00		4.67
ACHNANTHES LANCEOLATA		14.00	14.00	9.33
ACHNANTHES MINUTISSIMA	13014.00	9646.00	10472.00	11044.00
GYROSIGMA ACUMINATUM	.10		.12	.07
NAVICULA ARVENSIS	18.00			6.00
NAVICULA CRYPTOCEPHALA	36.00	182.00	84.00	100.67
NAVICULA PELLICULOSA		28.00	28.00	18.67
NAVICULA VIRIDULA		14.00		4.67
NAVICULA SP 1	18.00	14.00		10.67
NAVICULA SP 2	45.00			15.00
PINNULARIA VIRIDIS	.20			.07
AMPHORA OVALIS	18.00			6.00
AMPHORA SP 1	9.00			3.00
CYMBELLA MICROCEPHALA		14.00		4.67
GOMPHONEMA INTRICATUM	36.00			12.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 7

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CAPITELLATA		14.00		4.67
NITZSCHIA DENTICULA	135.00	98.00	140.00	124.33
NITZSCHIA FRUSTULUM		42.00	24.00	22.00
NITZSCHIA HOLSATICA		28.00	14.00	14.00
NITZSCHIA LATENS		14.00		4.67
NITZSCHIA LINEARIS	18.00	.12	1.30	6.47
GROUP MEAN				11499.61

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 8

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP			427.00	142.33
GROUP MEAN				142.33
CHRYSOPHYTA				
PICODEA LACUSTRIS	4977.00	980.00	2212.00	2723.00
CHRYSIDIASTRUM UCELLATUM	32.00			10.67
MEPIDION CIRCULARE			7.00	2.33
ACHNANTHES CLEVEI	4.00			1.33
ACHNANTHES LANCEOLATA	310.00	378.00	175.00	287.67
ACHNANTHES MINUTISSIMA	756.00	1974.00	504.00	1078.00
GYROSIGMA ACUMINATUM	.16			.05
NAVICULA ARVENSIS	72.00	42.00		38.00
NAVICULA CRYPTOCEPHALA	176.00	301.00	168.00	215.00
NAVICULA PELLICULOSA		154.00	7.00	53.67
NAVICULA TRIPUNCTATA	4.00			1.33
NAVICULA SP 1	14.00	49.00		21.00
NAVICULA SP 2	4.00		7.00	3.67
GOMPHONEMA INTRICATUM	122.00	352.00	98.00	190.67
NITZSCHIA ACICULARIS	9.00	7.00		5.33
NITZSCHIA CAPITELLATA	18.00	7.00		8.33

COLLECTION METHOD - SCRAPINGS

SITE = B

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DENTICULA	4.00			1.33
NITZSCHIA DISSIPATA	14.00			4.67
NITZSCHIA FRUSTULUM	40.00	28.00	49.00	39.00
NITZSCHIA HOLSATICA			7.00	2.33
NITZSCHIA IGNERATA		7.00		2.33
NITZSCHIA LATENS		7.00		2.33
NITZSCHIA LINEARIS	.04	7.00		2.35
NITZSCHIA PALEA	9.00			3.00
SURIRELLA OVALIS	4.00	.20		1.40
GROUP MEAN				4698.80

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
STIGEOCLONIUM SPP	9.00			3.00
OEDOGONIUM SPP	2.00			.67
GROUP MEAN				3.67
CHRYSOPHYTA				
DICOECA LACUSTRIS	132.00	477.00	5950.00	2186.33
ACHNANTHES LANCEOLATA			17.00	5.67
ACHNANTHES MINUTISSIMA	4466.00	328.00	2074.00	2289.33
GYROSIGMA ACUMINATUM	2.00	.28	19.00	7.09
NAVICULA CRYPTOCEPHALA	154.00	18.00	119.00	97.00
NAVICULA PELLICULOSA			17.00	5.67
NAVICULA SP 2			17.00	5.67
CALONEIS BACILLUM	22.00			7.33
AMPHORA OVALIS VAR. PEDICULUS	22.00	4.00		8.67
CYMBELLA SINUATA	44.00			14.67
GOMPHONEMA INTRICATUM	22.00			7.33
GOMPHONEMA PARVULUM		9.00		3.00
NITZSCHIA ACICULARIS		4.00		1.33
NITZSCHIA DENTICULA	484.00	58.00	170.00	237.33
NITZSCHIA FRUSTULUM	66.00	9.00	17.00	30.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 9

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA HOLSATICA	66.00			22.00
NITZSCHIA LATENS	22.00	4.00	17.00	14.33
NITZSCHIA LINEARIS	22.00	.72	17.00	13.24
NITZSCHIA PALEA	22.00			7.33
SURIRELLA OVALIS	2.00	4.00	17.00	7.67
GROUP MEAN				4971.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 13

TAXON	REP A	REP B	REP C	MEAN
CHLOROPHYTA				
STIGEOCLONIUM SPP	1.00			.33
GROUP MEAN				.33
CHRYSOPHYTA				
PICUECA LACUSTRIS	35.00	133.00	66.00	78.00
COCCONEIS PLACENTULA	35.00			11.67
ACHNANTHES LANCEOLATA	77.00	77.00	16.00	56.67
ACHNANTHES MINUTISSIMA	1596.00	3927.00	482.00	2001.67
RHOICOSPHENIA CURVATA	119.00			39.67
GYROSIGMA ACUMINATUM	.12	7.00	.03	2.38
NAVICULA ARVENSIS	35.00			11.67
NAVICULA CRYPTOCEPHALA	98.00	77.00	13.00	62.67
NAVICULA MINIMA		7.00		2.33
NAVICULA PELLICULOSA		42.00	3.00	15.00
NAVICULA RADIOSA		21.00		7.00
NAVICULA TRIPUNCTATA	7.00			2.33
NAVICULA VIRIDULA	14.00	7.00		7.00
NAVICULA SP 1		7.00		2.33
NAVICULA SP 2			3.00	1.00
AMPHORA MONTANA	7.00			2.33

COLLECTION METHOD - SCRAPINGS

SITE = 13

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS	140.00			46.67
CYMBELLA AFFINIS	21.00	14.00	3.00	12.67
CYMBELLA MICROCEPHALA	28.00	21.00	3.00	17.33
GOMPHONEMA INTRICATUM	63.00	7.00	10.00	26.67
GOMPHONEMA PARVULUM	7.00			2.33
RHOPALODIA GIBBA	.06			.02
NITZSCHIA CAPITELLATA		14.00		4.67
NITZSCHIA DENTICULA	14.00			4.67
NITZSCHIA DISSIPATA	7.00	7.00		4.67
NITZSCHIA FRUSTULUM	21.00	14.00	7.00	14.00
NITZSCHIA HOLSATICA	7.00			2.33
NITZSCHIA LATENS			3.00	1.00
NITZSCHIA LINEARIS		7.00		2.33
SURIRELLA OVATA	7.00			2.33
GROUP MEAN				2445.40

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 14

TAXEN	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	7.00			7.00
GROUP MEAN				7.00
CHLOROPHYTA				
CLADOPHORA SPP	2.00			2.00
GROUP MEAN				2.00
CHRYSOPHYTA				
SYNEDRA ULNA	.10			.10
COCCONEIS PEDICULUS	28.00			28.00
COCCONEIS PLACENTULA	35.00			35.00
ACHNANTHES LANCEOLATA	56.00			56.00
ACHNANTHES MINUTISSIMA	686.00			686.00
RHOICOSPHENIA CURVATA	42.00			42.00
MASTOGLOIA ELLIPTICA	28.00			28.00
NAVICULA CRYPTOCEPHALA	203.00			203.00
NAVICULA MINIMA	7.00			7.00
NAVICULA PELLICULOSA	28.00			28.00
NAVICULA SP 1	7.00			7.00
NAVICULA SP 2	7.00			7.00

COLLECTION METHOD - SCRAPINGS

SITE = 14

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA MONTANA	7.00			7.00
AMPHORA OVALIS VAR. PEDICULUS	70.00			70.00
CYMBELLA AFFINIS	21.00			21.00
CYMBELLA VENTRICOSA	7.00			7.00
CYMBELLA SP 1	7.00			7.00
GOMPHONEMA INTRICATUM	7.00			7.00
EPITHEMIA SOREX	7.00			7.00
RHOPALODIA GIBBA	21.00			21.00
RHOPALODIA GIBBERULA	119.00			119.00
NITZSCHIA DENTICULA	21.00			21.00
NITZSCHIA DISSIPATA	14.00			14.00
NITZSCHIA FRUSTULUM	203.00			203.00
NITZSCHIA HOLSATICA	84.00			84.00
NITZSCHIA MICROCEPHALA	7.00			7.00
NITZSCHIA PALEA	91.00			91.00
GROUP MEAN				1813.10

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 19

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
THALASSIOSIRA FLUVIATILIS	154.00			154.00
FRAGILARIA CONSTRUENS	66.00			66.00
SYNEDRA ULNA	22.00			22.00
ACHNANTHES LANCEOLATA	44.00			44.00
ACHNANTHES MINUTISSIMA	88.00			88.00
PLEUROSIGMA DELICATULUM	88.00			88.00
NAVICULA CRYPTOCEPHALA	110.00			110.00
NAVICULA MUTICA	22.00			22.00
NAVICULA PELLICULOSA	22.00			22.00
NAVICULA SP 2	44.00			44.00
CYMBELLA SP 1	22.00			22.00
EPITHEMIA ZEBRA	1.00			1.00
RHOPALODIA GIBBA	2.00			2.00
RHOPALODIA GIBBERULA	66.00			66.00
NITZSCHIA CAPITELLATA	198.00			198.00
NITZSCHIA FRUSTULUM	616.00			616.00
NITZSCHIA LATENS	132.00			132.00
SURIRELLA OVATA	22.00			22.00
GROUP MEAN				1719.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	123.00	34.00		52.33
GROUP MEAN				52.33
CHLOROPHYTA				
CLADOPHORA SPP	22.00		3.00	8.33
SPIROGYRA SPP	3.30			1.10
GROUP MEAN				9.43
CHRYSOPHYTA				
THALASSIOSIRA FLUVIATILIS			11.00	3.67
CYCLOTELLA MENEGHINIANA	45.00	22.00	168.00	78.33
SYNEDRA PULCHELLA	190.00			63.33
SYNEDRA ULNA	11.00	34.00		15.00
ACHNANTHES MINUTISSIMA	22.00	213.00	134.00	123.00
MASTOGLOIA ELLIPTICA	56.00	146.00	269.00	157.00
GYROSIGMA ACUMINATUM	.60	11.00	11.00	7.53
NAVICULA ARVENSIS			11.00	3.67
NAVICULA CRYPTOCEPHALA	67.00	246.00	437.00	250.00
NAVICULA SALINARUM		11.00		3.67
NAVICULA VIRIDULA	22.00	90.00	34.00	48.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 20

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS			11.00	3.67
CYMBELLA SP 1	78.00	101.00	67.00	82.00
AMPHIPRORA ALATA		11.00	11.00	7.33
RHOPALODIA GIBBA	.10	11.00		3.70
RHOPALODIA GIBBERULA	34.00		78.00	37.33
NITZSCHIA APICULATA	22.00	11.00		11.00
NITZSCHIA BERGII		78.00	22.00	33.33
NITZSCHIA CAPITELLATA	67.00	101.00	112.00	93.33
NITZSCHIA FRUSTULUM	1579.00	1187.00	6821.00	3195.67
NITZSCHIA HOLSATICA	112.00	370.00	448.00	310.00
NITZSCHIA HUNGARICA		11.00		3.67
NITZSCHIA LATENS	78.00	202.00	146.00	142.00
NITZSCHIA MICROCEPHALA		34.00	67.00	33.67
NITZSCHIA SIGMA		11.00		3.67
SURIRELLA OVATA			11.00	3.67
SURIRELLA OVALIS			.30	.10
SURIRELLA STRIATULA	.10		1.00	.37
GROUP MEAN				4718.37

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP			45.00	15.00
GROUP MEAN				15.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	102.00	9.00	11.00	40.67
ACHNANTHES MINUTISSIMA	272.00	9.00	22.00	101.00
GYROSIGMA ACUMINATUM	.60			.20
NAVICULA CRYPTOCEPHALA	578.00	36.00	101.00	238.33
NAVICULA PELLICULOSA	68.00		11.00	26.33
NAVICULA TRIPUNCTATA			11.00	3.67
NAVICULA VIRIDULA		63.00	11.00	24.67
NAVICULA SP 2	170.00			56.67
AMPHORA OVALIS VAR. PEDICULUS			34.00	11.33
CYMBELLA MICROCEPHALA		9.00		3.00
CYMBELLA SP 1	34.00	9.00		14.33
RHOPALODIA GIBBERULA			11.00	3.67
NITZSCHIA APICULATA		18.00		6.00
NITZSCHIA CAPITELLATA	170.00		11.00	60.33
NITZSCHIA FRUSTULUM	41378.00	153.00	482.00	14004.33
NITZSCHIA HOLSATICA	476.00	144.00	112.00	244.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 21

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA LATENS	1700.00	90.00	67.00	619.00
NITZSCHIA MICROCEPHALA	136.00			45.33
NITZSCHIA PALEA		18.00		6.00
SURIRELLA OVATA	34.00			11.33
SURIRELLA OVALIS		9.00		3.00
GROUP MEAN				15523.20

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 22

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP			45.00	15.00
GROUP MEAN				15.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	594.00	67.00	9.00	223.33
SYNEDRA ULNA	.40			.13
ACHNANTHES MINUTISSIMA	330.00	45.00	63.00	146.00
GYROSIGMA ACUMINATUM	.60	.60	.50	.57
NAVICULA CRYPTOCEPHALA	242.00	34.00	261.00	179.00
NAVICULA PELLICULOSA			189.00	63.00
NAVICULA SALINARUM VAR. INTERMEDIA		11.00		3.67
NAVICULA TRIPUNCTATA		11.00		3.67
NAVICULA VIRIDULA	22.00	34.00	72.00	42.67
NAVICULA SP 1			36.00	12.00
NAVICULA SP 2	22.00			7.33
AMPHORA OVALIS VAR. PEDICULUS	22.00		54.00	25.33
CYMBELLA AFFINIS	88.00	11.00		33.00
CYMBELLA SINUATA	44.00			14.67
CYMBELLA SP 1	22.00		27.00	16.33
GOMPHONEMA AFFINE	44.00			14.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 22

TAXLN	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
EPITHEMIA SOREX	88.00	11.00		33.00
CYLINDROTHECA GRACILIS		11.00		3.67
HANTZSCHIA AMPHIOXYS	22.00			7.33
NITZSCHIA APICULATA	22.00	11.00	9.00	14.00
NITZSCHIA BERGII		11.00		3.67
NITZSCHIA CAPITELLATA	44.00		126.00	56.67
NITZSCHIA DISSIPATA		11.00	90.00	33.67
NITZSCHIA FRUSTULUM	1452.00	168.00	5418.00	2346.00
NITZSCHIA HOLSATICA	242.00	45.00	477.00	254.67
NITZSCHIA LATENS	66.00	11.00	135.00	70.67
NITZSCHIA MICROCEPHALA	22.00	11.00		11.00
NITZSCHIA SIGMA	.40	.30		.23
SURIRELLA OVATA	66.00	11.00		25.67
SURIRELLA OVALIS	.60		.20	.27
GROUP MEAN				3645.87

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			66.00	22.00
CALOTHRIX SPP		1320.00	1738.00	1019.33
GROUP MEAN				1041.33
CHLOROPHYTA				
STIGEOCLONIUM SPP	34.00			11.33
CLADOPHORA SPP	14.00	8.00	20.40	14.13
GROUP MEAN				25.47
CHRYSOPHYTA				
FRAGILARIA LEPTOSTAURON			22.00	7.33
FRAGILARIA VAUCHERIAE			44.00	14.67
SYNEDRA ULNA			44.00	14.67
COCCONEIS PEDICULUS	442.00	616.00	1254.00	770.67
COCCONEIS PLACENTULA	68.00	44.00	176.00	96.00
ACHNANTHES MINUTISSIMA		66.00	176.00	80.67
GYROSIGMA ACUMINATUM			.40	.13
NAVICULA CRYPTOCEPHALA	1156.00	352.00	264.00	590.67
NAVICULA SALINARUM VAR. INTERMEDIA	102.00	22.00	242.00	122.00
NAVICULA SUBHAMULATA	34.00			11.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA	578.00	110.00	110.00	266.00
NAVICULA VIRIDULA	170.00		22.00	64.00
CALONEIS BACILLUM			22.00	7.33
AMPHORA OVALIS VAR. PEDICULUS	578.00	1540.00	66.00	728.00
CYMBELLA SINUATA	68.00			22.67
GOMPHONEMA INTRICATUM		22.00	220.00	80.67
GOMPHONEMA OLIVACEUM	102.00	44.00		48.67
GOMPHONEMA PARVULUM			44.00	14.67
GOMPHONEMA SP 1		22.00	22.00	14.67
EPITHEMIA SOREX	578.00	440.00	1606.00	874.67
EPITHEMIA ZEBRA			22.00	7.33
CYLINDROTHECA GRACILIS	340.00			113.33
NITZSCHIA CAPITELLATA	68.00	22.00		30.00
NITZSCHIA CHASEI	170.00	22.00		64.00
NITZSCHIA DISSIPATA	170.00	66.00	44.00	93.33
NITZSCHIA FRUSTULUM	102.00	264.00	132.00	166.00
NITZSCHIA LATENS	34.00			11.33
NITZSCHIA MICROCEPHALA		22.00		7.33
NITZSCHIA SIGMA			22.00	7.33
NITZSCHIA SIGMOIDEA			.20	.07

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 23

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
SURIRELLA OVALIS		22.00		7.33
GROUP MEAN				4336.87

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 24

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			66.00	22.00
CALOTHRIX SPP	1088.00	66.00	1320.00	824.67
GROUP MEAN				846.67
CHLOROPHYTA				
CLADOPHORA SPP	41.00	9.00	22.00	24.00
GROUP MEAN				24.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	102.00	44.00	22.00	56.00
DIATOMA VULGARE	34.00	22.00		18.67
FRAGILARIA LEPTOSTAURON		66.00	88.00	51.33
FRAGILARIA VAUCHERIAE	68.00	22.00	22.00	37.33
COCCONEIS PEDICULUS	272.00	2376.00	660.00	1102.67
COCCONEIS PLACENTULA	204.00	88.00	110.00	134.00
ACHNANTHES MINUTISSIMA	17.00	22.00	66.00	35.00
GYROSIGMA ACUMINATUM	1.00	1.00	.60	.87
PLEUROSIGMA DELICATULUM		1.00	.20	.40
NAVICULA CAPITATA		22.00		7.33
NAVICULA CRYPTOCEPHALA	1428.00	528.00	616.00	857.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 24

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SALINARUM VAR. INTERMEDIA	306.00	440.00	286.00	344.00
NAVICULA SUBHAMULATA			22.00	7.33
NAVICULA TRIPUNCTATA	816.00	440.00	330.00	528.67
NAVICULA VIRIDULA	136.00		22.00	52.67
CALONEIS AMPHISBAENA		.20		.07
CALONEIS VENTRICOSA	34.00			11.33
AMPHORA OVALIS VAR. PEDICULUS	952.00	242.00	880.00	691.33
CYMBELLA AFFINIS	34.00	44.00	22.00	33.33
CYMBELLA SINUATA		22.00	66.00	29.33
CYMBELLA VENTRICOSA	34.00			11.33
GOMPHONEMA INTRICATUM	374.00	242.00	330.00	315.33
GOMPHONEMA OLIVACEUM	34.00	110.00		48.00
GOMPHONEMA PARVULUM	34.00	44.00		26.00
GOMPHONEMA VENTRICOSUM			22.00	7.33
GOMPHONEMA SP 1			44.00	14.67
EPITHEMIA SOREX	3536.00	2420.00	1936.00	2630.67
RHOPALODIA GIBBA	34.00	.20	22.00	18.73
NITZSCHIA ACICULARIS		22.00		7.33
NITZSCHIA CAPITELLATA	170.00			56.67
NITZSCHIA CHASEI	374.00	44.00	264.00	227.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 24

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DISSIPATA	646.00		330.00	325.33
NITZSCHIA FRUSTULUM	442.00	176.00	308.00	308.67
NITZSCHIA HOLSATICA	34.00			11.33
NITZSCHIA HUNGARICA			44.00	14.67
NITZSCHIA SIGMOIDEA			.20	.07
GROUP MEAN				8022.47

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 25

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP	102.00			34.00
CALOTHRIX SPP		814.00	4488.00	1767.33
GROUP MEAN				1801.33
CHLOROPHYTA				
CLADOPHORA SPP	68.00		102.00	56.67
GROUP MEAN				56.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	34.00	88.00		40.67
FRAGILARIA VAUCHERIAE		44.00		14.67
SYNEDRA ULNA	34.00	22.00		18.67
COCCONEIS PEDICULUS	816.00	726.00	136.00	559.33
COCCONEIS PLACENTULA		22.00		7.33
ACHNANTHES MINUTISSIMA		220.00	68.00	96.00
GYROSIGMA ACUMINATUM		.20		.07
NAVICULA ARVENSIS		22.00		7.33
NAVICULA CRYPTOCEPHALA	408.00	660.00	476.00	514.67
NAVICULA MINIMA		22.00		7.33
NAVICULA SALINARUM VAR. INTERMEDIA	170.00	506.00	170.00	282.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 25

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA	204.00	220.00	374.00	266.00
NAVICULA VIRIDULA	34.00	44.00		26.00
AMPHORA OVALIS VAR. PEDICULUS	340.00	440.00	3978.00	1586.00
CYMBELLA SINUATA	34.00		34.00	22.67
GOMPHONEMA INTRICATUM	68.00	264.00		110.67
GOMPHONEMA OLIVACEUM	374.00	198.00		190.67
EPITHEMIA SOREX	1530.00	1892.00	952.00	1458.00
RHOPALODIA GIBBA		.60		.20
NITZSCHIA CAPITELLATA	34.00	176.00		70.00
NITZSCHIA CHASEI	68.00	396.00	136.00	200.00
NITZSCHIA DISSIPATA	442.00	264.00	102.00	269.33
NITZSCHIA FRUSTULUM	102.00	594.00	136.00	277.33
NITZSCHIA GRACILIS		22.00		7.33
NITZSCHIA HOLSATICA		66.00		22.00
NITZSCHIA PALEA		22.00		7.33
GROUP MEAN				6061.60

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	3400.00	924.00	782.00	1702.00
GROUP MEAN				1702.00
CHLOROPHYTA				
CLADOPHORA SPP	102.00	88.00	12.45	67.48
GROUP MEAN				67.48
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		110.00		36.67
DIATOMA VULGARE			17.00	5.67
FRAGILARIA CONSTRUENS		132.00		44.00
FRAGILARIA PINNATA			51.00	17.00
FRAGILARIA VAUCHERIAE		22.00	102.00	41.33
SYNEDRA ULNA		22.00		7.33
COCCONEIS PEDICULUS	408.00	748.00	595.00	583.67
COCCONEIS PLACENTULA			34.00	11.33
ACHNANTHES MINUTISSIMA	510.00	286.00	136.00	310.67
AMPHIPLEURA PELLUCIDA			17.00	5.67
GYROSIGMA ACUMINATUM	1.00	.60	.15	.58
PLEUROSIGMA DELICATULUM		.20		.07

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA ARVENSIS		22.00		7.33
NAVICULA CRYPTOCEPHALA	408.00	968.00	459.00	611.67
NAVICULA MINIMA	306.00	22.00		109.33
NAVICULA PUPULA			17.00	5.67
NAVICULA SALINARUM VAR. INTERMEDIA	340.00	44.00	102.00	162.00
NAVICULA TRIPUNCTATA	306.00	616.00	136.00	352.67
NAVICULA VIRIDULA	34.00	44.00	17.00	31.67
AMPHORA OVALIS VAR. PEDICULUS	9044.00	1210.00	425.00	3559.67
CYMBELLA AFFINIS			17.00	5.67
CYMBELLA SINUATA			17.00	5.67
GOMPHONEMA AFFINE	34.00			11.33
GOMPHONEMA INTRICATUM	136.00	66.00		67.33
GOMPHONEMA OLIVACEUM	34.00	22.00	17.00	24.33
GOMPHONEMA PARVULUM		88.00	34.00	40.67
GOMPHONEMA VENTRICOSUM			17.00	5.67
EPITHEMIA SOREX	1598.00	3234.00		1610.67
CYLINDROTHECA GRACILIS			17.00	5.67
NITZSCHIA AMPHIBIA			17.00	5.67
NITZSCHIA CAPITATA			34.00	11.33
NITZSCHIA CAPITELLATA	204.00	88.00		97.33

COLLECTION METHOD - SCRAPINGS

SITE = 26

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA CHASEI	272.00	286.00	17.00	191.67
NITZSCHIA DISSIPATA	646.00	638.00	187.00	490.33
NITZSCHIA FONTICOLA			17.00	5.67
NITZSCHIA FRUSTULUM	272.00	242.00	204.00	239.33
NITZSCHIA GRACILIS		66.00	17.00	27.67
NITZSCHIA HOLSATICA	34.00	154.00	68.00	85.33
NITZSCHIA SIGMA	.30			.10
NITZSCHIA SIGMOIDEA		.40		.13
CYMATOPLEURA SOLEA	.30		.15	.15
GROUP MEAN				8835.70

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
OSCILLATORIA SPP	34.00			11.33
ANABAENA SPP			17.00	5.67
CALOTHRIX SPP	3570.00	1360.00	3145.00	2691.67
GROUP MEAN				2708.67
CHLOROPHYTA				
CLADOPHORA SPP	68.00		17.00	28.33
GROUP MEAN				28.33
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	34.00		68.00	34.00
DIATOMA VULGARE			17.00	5.67
FRAGILARIA VAUCHERIAE	68.00	34.00	17.00	39.67
COCCONEIS PEDICULUS	306.00	714.00	748.00	589.33
COCCONEIS PLACENTULA	68.00	34.00	17.00	39.67
ACHNANTHES MINUTISSIMA	204.00		102.00	102.00
GYROSIGMA ACUMINATUM		.30	.15	.15
PLEUROSIGMA DELICATULUM			.15	.05
NAVICULA CRYPTOCEPHALA	306.00	510.00	221.00	345.67
NAVICULA MINIMA	34.00			11.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 27

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA PELLICULOSA	544.00			181.33
NAVICULA SALINARUM VAR. INTERMEDIA	102.00	34.00	51.00	62.33
NAVICULA TRIPUNCTATA	34.00	68.00	119.00	73.67
AMPHORA OVALIS	34.00			11.33
AMPHORA OVALIS VAR. PEDICULUS	544.00	340.00	391.00	425.00
CYMBELLA AFFINIS			17.00	5.67
GOMPHONEMA INTRICATUM	136.00	272.00	357.00	255.00
GOMPHONEMA PARVULUM	34.00	34.00	17.00	28.33
GOMPHONEMA SP 1			17.00	5.67
EPITHEMIA SOREX	1598.00	1156.00	2635.00	1796.33
RHOPALODIA GIBBA	.30	.60	.45	.45
NITZSCHIA CAPITELLATA	68.00	34.00		34.00
NITZSCHIA CHASEI	102.00	102.00	17.00	73.67
NITZSCHIA DISSIPATA	102.00	34.00	51.00	62.33
NITZSCHIA FRUSTULUM	68.00	170.00	85.00	107.67
NITZSCHIA GRACILIS	34.00			11.33
NITZSCHIA HOLSATICA	68.00	204.00		90.67
NITZSCHIA LINEARIS			17.00	5.67
CYMATOPLEURA SOLEA		.30		.10
GROUP MEAN				4398.08

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
SCHIZOTHRIX SPP	170.00			56.67
CALOTHRIX SPP	2754.00	792.00	3553.00	2366.33
GROUP MEAN				2423.00
CHLOROPHYTA				
CLADOPHORA SPP		110.00		36.67
GROUP MEAN				36.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		66.00		22.00
DIATOMA VULGARE			17.00	5.67
FRAGILARIA CONSTRUENS	34.00			11.33
FRAGILARIA LEPTOSTAURON	68.00			22.67
FRAGILARIA VAUCHERIAE	34.00			11.33
SYNEDRA ULNA	34.00	22.00		18.67
COCCONEIS PEDICULUS	476.00	1056.00	306.00	612.67
COCCONEIS PLACENTULA	102.00	66.00	34.00	67.33
ACHNANTHES MINUTISSIMA	340.00	88.00	102.00	176.67
GYROSIGMA ACUMINATUM	1.00	.60		.53
NAVICULA CRYPTOCEPHALA	204.00	220.00	85.00	169.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 28

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA SALINARUM VAR. INTERMEDIA	102.00	154.00	170.00	142.00
NAVICULA TRIPUNCTATA	102.00	66.00	34.00	67.33
NAVICULA VIRIDULA		22.00		7.33
CALONEIS AMPHISBAENA	.30	.20		.17
AMPHORA OVALIS VAR. PEDICULUS	170.00	88.00	34.00	97.33
CYMBELLA AFFINIS	34.00			11.33
CYMBELLA SINUATA			68.00	22.67
GOMPHONEMA INTRICATUM	1088.00	286.00	306.00	560.00
GOMPHONEMA OLIVACEUM		88.00		29.33
GOMPHONEMA PARVULUM	68.00		17.00	28.33
GOMPHONEMA SP 1			17.00	5.67
EPITHEMIA SOREX	5542.00	1892.00	2125.00	3186.33
EPITHEMIA ZEBRA	34.00	22.00		18.67
RHOPALODIA GIBBA	34.00	.60		11.53
NITZSCHIA APICULATA	34.00		51.00	28.33
NITZSCHIA CAPITELLATA		88.00		29.33
NITZSCHIA CHASEI	34.00		17.00	17.00
NITZSCHIA DISSIPATA	68.00	88.00	153.00	103.00
NITZSCHIA FRUSTULUM	170.00	110.00	221.00	167.00
NITZSCHIA GRACILIS	34.00		34.00	22.67

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 2P

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA HOLSATICA	34.00	132.00	51.00	72.33
NITZSCHIA LINEARIS	34.00			11.33
GROUP MEAN				5757.57

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			17.00	5.67
SCHIZOTHRIX SPP	68.00			22.67
CALOTHRIX SPP	4386.00	198.00	1666.00	2083.33
GROUP MEAN				2111.67
CHLOROPHYTA				
CLADOPHORA SPP	11.00	66.00	45.00	40.67
GROUP MEAN				40.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	102.00	110.00	187.00	133.00
FRAGILARIA LEPTOSTAURON		22.00		7.33
FRAGILARIA VAUCHERIAE		22.00	17.00	13.00
SYNEDRA ULNA			51.00	17.00
COCCONEIS PEDICULUS	850.00	880.00	391.00	707.00
COCCONEIS PLACENTULA	136.00	176.00	34.00	115.33
ACHNANTHES MINUTISSIMA	68.00	132.00		66.67
MASTOGLOIA ELLIPTICA	34.00			11.33
GYROSIGMA ACUMINATUM	.30	1.00		.43
PLEUROSIGMA DELICATULUM	.30	22.00	.15	7.48

COLLECTION METHOD - SCRAPINGS

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA CRYPTOCEPHALA	204.00	132.00	85.00	140.33
NAVICULA CUSPIDATA	.30			.10
NAVICULA SALINARUM VAR. INTERMEDIA	136.00	154.00	85.00	125.00
NAVICULA TRIPUNCTATA	306.00	286.00	51.00	214.33
NAVICULA VIRIDULA			17.00	5.67
CALONEIS VENTRICOSA			17.00	5.67
AMPHORA OVALIS VAR. PEDICULUS	34.00	66.00		33.33
CYMBELLA AFFINIS	34.00		34.00	22.67
CYMBELLA SINUATA		22.00	17.00	13.00
GOMPHONEMA INTRICATUM	1156.00	132.00	578.00	622.00
GOMPHONEMA OLIVACEUM		44.00		14.67
GOMPHONEMA PARVULUM		22.00	119.00	47.00
GOMPHONEMA SP 1	306.00			102.00
EPITHEMIA SOREX	4352.00	462.00	2737.00	2517.00
RHOPALODIA GIBBA	.30	.60		.30
NITZSCHIA ACICULARIS	34.00		17.00	17.00
NITZSCHIA APICULATA	34.00	22.00	34.00	30.00
NITZSCHIA BERGII		22.00		7.33
NITZSCHIA CAPITELLATA			51.00	17.00
NITZSCHIA CHASEI		22.00	119.00	47.00

COLLECTION METHOD - SCRAPINGS

SITE = 29

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA DISSIPATA	102.00	66.00	85.00	84.33
NITZSCHIA FRUSTULUM	238.00	176.00	102.00	172.00
NITZSCHIA GRACILIS	34.00		34.00	22.67
NITZSCHIA HOLSATICA	102.00	44.00	17.00	54.33
NITZSCHIA HUNGARICA			17.00	5.67
NITZSCHIA LATENS		22.00		7.33
NITZSCHIA MICROCEPHALA		22.00		7.33
NITZSCHIA PALEA			17.00	5.67
SURIRELLA OVATA	34.00			11.33
GROUP MEAN				5430.65

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 30

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	5134.00	3762.00	2482.00	3792.67
GROUP MEAN				3792.67
CHLOROPHYTA				
CLADOPHORA SPP	22.00	88.00	34.00	48.00
GROUP MEAN				48.00
CHRYSOPHYTA				
FRAGILARIA LEPTOSTAURON	136.00			45.33
FRAGILARIA PINNATA			34.00	11.33
FRAGILARIA VAUCHERIAE		22.00		7.33
COCCONEIS PEDICULUS	340.00	308.00	1768.00	805.33
COCCONEIS PLACENTULA			34.00	11.33
ACHNANTHES LANCEOLATA	34.00			11.33
ACHNANTHES MINUTISSIMA	136.00	264.00	68.00	156.00
AMPHIPLEURA PELLUCIDA			34.00	11.33
GYROSIGMA ACUMINATUM	9.00			3.00
NAVICULA CRYPTOCEPHALA	544.00	286.00	170.00	333.33
NAVICULA SALINARUM VAR. INTERMEDIA	204.00	66.00	102.00	124.00
NAVICULA SUBHAMULATA	34.00			11.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 30

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	5134.00	3762.00	2482.00	3792.67
GROUP MEAN				3792.67
CHLOROPHYTA				
CLADOPHORA SPP	22.00	88.00	34.00	48.00
GROUP MEAN				48.00
CHRYSOPHYTA				
FRAGILARIA LEPTOSTAURON	136.00			45.33
FRAGILARIA PINNATA			34.00	11.33
FRAGILARIA VAUCHERIAE		22.00		7.33
COCCONEIS PEDICULUS	340.00	308.00	1768.00	805.33
COCCONEIS PLACENTULA			34.00	11.33
ACHNANTHES LANCEOLATA	34.00			11.33
ACHNANTHES MINUTISSIMA	136.00	264.00	68.00	156.00
AMPHIPLEURA PELLUCIDA			34.00	11.33
GYROSIGMA ACUMINATUM	9.00			3.00
NAVICULA CRYPTOCEPHALA	544.00	286.00	170.00	333.33
NAVICULA SALINARUM VAR. INTERMEDIA	204.00	66.00	102.00	124.00
NAVICULA SUBHAMULATA	34.00			11.33

COLLECTION METHOD - SCRAPINGS

SITE = 30

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA	102.00	154.00	136.00	130.67
AMPHORA OVALIS VAR. PEDICULUS	102.00	946.00	510.00	519.33
CYMBELLA AFFINIS	34.00			11.33
CYMBELLA SINUATA		88.00	136.00	74.67
GOMPHONEMA INTRICATUM	782.00	44.00	408.00	411.33
GOMPHONEMA OLIVACEUM	34.00		34.00	22.67
GOMPHONEMA PARVULUM			34.00	11.33
EPITHEMIA SOREX	7548.00	2442.00	2856.00	4282.00
RHOPALODIA GIBBA		22.00		7.33
NITZSCHIA CAPITELLATA	134.00	22.00		52.00
NITZSCHIA CHASEI	34.00	22.00	68.00	41.33
NITZSCHIA DISSIPATA	476.00	66.00	170.00	237.33
NITZSCHIA FRUSTULUM	204.00	154.00	170.00	176.00
NITZSCHIA GRACILIS	34.00			11.33
NITZSCHIA HOLSATICA			102.00	34.00
NITZSCHIA LINEARIS	.30			.10
NITZSCHIA MICROCEPHALA	34.00			11.33
CYMATOPLEURA SOLEA	.30			.10
GROUP MEAN				7565.20

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	5406.00	2068.00	5324.00	4266.00
GROUP MEAN				4266.00
CHLOROPHYTA				
CLADOPHORA SPP	68.00	38.00		35.33
GROUP MEAN				35.33
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE	34.00	88.00	44.00	55.33
SYNEDRA ULNA	34.00			11.33
COCCONEIS PEDICULUS	272.00	726.00	418.00	472.00
COCCONEIS PLACENTULA		66.00	22.00	29.33
ACHNANTHES LANCEOLATA	34.00			11.33
ACHNANTHES MINUTISSIMA	102.00	242.00	154.00	166.00
RHOICOSPHENIA CURVATA			22.00	7.33
GYROSIGMA ACUMINATUM		22.00	.20	7.40
PLEUROSIGMA DELICATULUM	.30			.10
NAVICULA CRYPTOCEPHALA	272.00	264.00	220.00	252.00
NAVICULA SALINARUM VAR. INTERMEDIA	136.00	330.00	286.00	250.67
NAVICULA TRIPUNCTATA	102.00	198.00	132.00	144.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 31

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS	578.00	176.00	1408.00	720.67
CYMBELLA AFFINIS			22.00	7.33
CYMBELLA SINUATA	68.00	44.00	176.00	96.00
CYMBELLA SP 1	34.00			11.33
GOMPHONEMA INTRICATUM	272.00	880.00	484.00	545.33
GOMPHONEMA OLIVACEUM	34.00		22.00	18.67
EPITHEMIA SOREX	2516.00	4466.00	3256.00	3412.67
NITZSCHIA CAPITELLATA	34.00	66.00	22.00	40.67
NITZSCHIA CHASEI		88.00	22.00	36.67
NITZSCHIA DISSIPATA	102.00	220.00	308.00	210.00
NITZSCHIA FRUSTULUM	68.00	242.00	88.00	132.67
NITZSCHIA GRACILIS		22.00	22.00	14.67
NITZSCHIA HULSATICA		154.00	44.00	66.00
NITZSCHIA LINEARIS			22.00	7.33
NITZSCHIA PALEA			22.00	7.33
SURIRELLA OVALIS		22.00		7.33
GROUP MEAN				6741.50

COLLECTION METHOD - SCRAPINGS

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			88.00	29.33
CALOTHRIX SPP	5066.00	782.00	2618.00	2822.00
GROUP MEAN				2851.33
CHLOROPHYTA				
CLADOPHORA SPP	510.00	28.00	44.00	194.00
GROUP MEAN				194.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	34.00	34.00		22.67
FRAGILARIA LEPTOSTAURON	34.00	34.00		22.67
FRAGILARIA VAUCHERIAE	34.00	34.00	44.00	37.33
SYNEDRA ULNA	34.00		.60	11.53
COCCONEIS PEDICULUS	3536.00	782.00	330.00	1549.33
COCCONEIS PLACENTULA	102.00		22.00	41.33
ACHNANTHES LANCEOLATA			22.00	7.33
ACHNANTHES MINUTISSIMA	204.00	34.00	88.00	108.67
GYROSIGMA ACUMINATUM	.30	68.00	22.00	30.10
PLEUROSIGMA DELICATULUM			.20	.07
NAVICULA CRYPTOCEPHALA	340.00	884.00	66.00	430.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA CUSPIDATA			.20	.07
NAVICULA MINIMA	68.00	34.00		34.00
NAVICULA PELLICULOSA		34.00		11.33
NAVICULA SALINARUM VAR. INTERMEDIA	408.00	408.00	352.00	389.33
NAVICULA TRIPUNCTATA	68.00	782.00	110.00	320.00
NAVICULA VIRIDULA		34.00	22.00	18.67
CALONEIS BACILLUM		34.00		11.33
AMPHORA OVALIS VAR. PEDICULUS	1122.00	952.00	2508.00	1527.33
CYMBELLA AFFINIS	34.00			11.33
CYMBELLA SINUATA	68.00			22.67
GOMPHONEMA INTRICATUM	782.00	374.00	154.00	436.67
GOMPHONEMA OLIVACEUM	68.00			22.67
GOMPHONEMA PARVULUM	34.00	102.00	110.00	82.00
EPITHEMIA SOREX	5032.00	2720.00	1606.00	3119.33
EPITHEMIA ZEBRA			22.00	7.33
RHOPALODIA GIBBA	1.00	.30	.20	.50
HANTZSCHIA AMPHIOXYS		34.00		11.33
NITZSCHIA CAPITELLATA	34.00	136.00	66.00	78.67
NITZSCHIA CHASEI		476.00	132.00	202.67
NITZSCHIA DISSIPATA	102.00	278.00	176.00	185.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 32

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA FRUSTULUM	272.00	1020.00	352.00	548.00
NITZSCHIA GRACILIS		34.00		11.33
NITZSCHIA HULSATICA	68.00	276.00		114.67
NITZSCHIA SIGMOIDEA		.30		.10
CYMATOPLEURA SOLEA		.60		.20
SURIRELLA OVATA		34.00		11.33
SURIRELLA OVALIS		34.00		11.33
GROUP MEAN				9450.57

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 33

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
LYNGBYA SPP			17.00	5.67
CALOTHRIX SPP	5576.00	4318.00	1598.00	3830.67
GROUP MEAN				3836.33
CHLOROPHYTA				
CLADOPHORA SPP	68.00	34.00	11.25	37.75
GROUP MEAN				37.75
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		34.00		11.33
FRAGILARIA PINNATA		102.00		34.00
FRAGILARIA VAUCHERIAE	68.00	102.00		56.67
SYNEDRA ULNA	34.00			11.33
COCCONEIS PEDICULUS	748.00	816.00	17.00	527.00
COCCONEIS PLACENTULA	102.00	34.00	34.00	56.67
ACHNANTHES MINUTISSIMA	68.00	34.00	34.00	45.33
GYROSIGMA ACUMINATUM	34.00			11.33
NAVICULA CRYPTOCEPHALA	510.00	408.00	272.00	396.67
NAVICULA PELLICULOSA		34.00		11.33
NAVICULA SALINARUM VAR. INTERMEDIA	102.00	136.00	51.00	96.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 33

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NAVICULA TRIPUNCTATA	272.00	238.00	68.00	192.67
NAVICULA VIRIDULA		34.00		11.33
AMPHORA OVALIS VAR. PEDICULUS		306.00	34.00	113.33
CYMBELLA SINUATA		34.00	85.00	39.67
GOMPHONEMA INTRICATUM	238.00	646.00	204.00	362.67
GOMPHONEMA PARVULUM		34.00	17.00	17.00
EPITHEMIA SOREX	7378.00	4216.00	1547.00	4380.33
RHOPALODIA GIBBA		34.00		11.33
NITZSCHIA CAPITELLATA		68.00		22.67
NITZSCHIA CHASEI		102.00		34.00
NITZSCHIA DISSIPATA	238.00			79.33
NITZSCHIA FAUSTULUM	102.00		34.00	45.33
NITZSCHIA GRACILIS	34.00	34.00		22.67
NITZSCHIA HUNGARICA	68.00			22.67
GROUP MEAN				6613.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 34

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	1921.00	1452.00	340.00	1237.67
GROUP MEAN				1237.67
CHLOROPHYTA				
CLADOPHORA SPP	68.00	88.00	34.00	63.33
GROUP MEAN				63.33
CHRYSOPHYTA				
DIATOMA VULGARE			34.00	11.33
FRAGILARIA VAUCHERIAE	17.00	44.00	85.00	48.67
SYNEDRA ULNA		22.00		7.33
COCCONEIS PEDICULUS	204.00	990.00	782.00	658.67
COCCONEIS PLACENTULA	34.00	22.00	119.00	58.33
ACHNANTHES MINUTISSIMA	51.00	22.00	17.00	30.00
NAVICULA CRYPTOCEPHALA	153.00	154.00	340.00	215.67
NAVICULA PELLICULOSA		22.00		7.33
NAVICULA SALINARUM VAR. INTERMEDIA	85.00	132.00	272.00	163.00
NAVICULA TRIPUNCTATA	85.00	110.00	204.00	133.00
NAVICULA VIRIDULA			17.00	5.67
AMPHORA OVALIS VAR. PEDICULUS		22.00	102.00	41.33

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 34

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA AFFINIS			51.00	17.00
GOMPHONEMA INTRICATUM		242.00	714.00	318.67
GOMPHONEMA OLIVACEUM	68.00		51.00	39.67
GOMPHONEMA PARVULUM		22.00	51.00	24.33
EPITHEMIA SOREX	1649.00	1958.00	1241.00	1616.00
NITZSCHIA CAPITELLATA		22.00	17.00	13.00
NITZSCHIA CHASEI			34.00	11.33
NITZSCHIA DISSIPATA	17.00	132.00	119.00	89.33
NITZSCHIA FRUSTULUM	68.00	44.00	136.00	82.67
NITZSCHIA GRACILIS	17.00		85.00	34.00
NITZSCHIA HOLSATICA	17.00		68.00	28.33
NITZSCHIA MICROCEPHALA			17.00	5.67
NITZSCHIA PALEA			17.00	5.67
GROUP MEAN				3666.00

Appendix H-9-2 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	638.00	442.00	1408.00	829.33
GROUP MEAN				829.33
CHLOROPHYTA				
CLADOPHORA SPP	66.00	187.00	7.00	86.67
GROUP MEAN				86.67
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA	22.00			7.33
FRAGILARIA LEPTOSTAURON		17.00		5.67
FRAGILARIA VAUCHERIAE		170.00		56.67
SYNEDRA ULNA		17.00		5.67
COCCONEIS PEDICULUS	264.00	680.00	110.00	351.33
COCCONEIS PLACENTULA	682.00	51.00		244.33
ACHNANTHES MINUTISSIMA	44.00	34.00		26.00
GYROSIGMA ACUMINATUM	.20			.07
NAVICULA CRYPTOCEPHALA	220.00	306.00	242.00	256.00
NAVICULA SALINARUM VAR. INTERMEDIA	176.00	85.00	154.00	138.33
NAVICULA TRIPUNCTATA	22.00	136.00		52.67
NAVICULA SP 2	22.00			7.33

Appendix H-9-2 (Continued)

COLLECTION METHOD = SCRAPINGS

SITE = 35

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
AMPHORA OVALIS VAR. PEDICULUS	110.00	17.00	110.00	79.00
CYMBELLA AFFINIS		17.00		5.67
CYMBELLA SINUATA	44.00		110.00	51.33
GOMPHONEMA INTRICATUM	110.00	374.00	110.00	198.00
GOMPHONEMA PARVULUM	22.00			7.33
EPITHEMIA SOREX	484.00	1309.00	2024.00	1272.33
RHOPALODIA GIBBA		17.00		5.67
RHOPALODIA GIBBERULA			22.00	7.33
NITZSCHIA APICULATA	22.00	17.00		13.00
NITZSCHIA CAPITELLATA			22.00	7.33
NITZSCHIA CHASEI	22.00	153.00	22.00	65.67
NITZSCHIA DISSIPATA	88.00	136.00	220.00	148.00
NITZSCHIA FRUSTULUM	88.00	51.00	198.00	112.33
NITZSCHIA GRACILIS	22.00			7.33
NITZSCHIA HUNGATICA	88.00	51.00		46.33
NITZSCHIA PALEA	22.00			7.33
GROUP MEAN				3185.40

APPENDIX H-9-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST-SEPTEMBER 1976

APPENDIX H-9-3

DRY AND ORGANIC WEIGHT OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES, AUGUST-SEPTEMBER 1976.[1]

Station Replicate	Dry Weight (g)	Organic Weight (g)
1-A	0.5755	0.0555
1-B	0.6336	0.0700
1-C	0.2258	0.0274
2-A	0.6189	0.0645
2-B	0.8044	0.0462
2-C	0.7714	0.0802
3-A	0.4371	0.0426
3-B	0.8457	0.0681
3-C	2.9700	0.1806
4-A	0.9379	0.1729
4-B	0.3821	0.0516
4-C	0.3002	0.0371
5-A	0.2659	0.0442
5-B	3.3747	0.3323
5-C	1.1698	0.1083
7-A	0.4729	0.0489
7-B	0.7234	0.0817
7-C	0.5377	0.0687
8-A	0.4059	0.0895
8-B	0.4545	0.0931
8-C	0.2363	0.0410
9-A	0.2505	0.0320
9-B	0.4062	0.0765
9-C	0.1370	0.0312
13-A	0.1468	0.0341
13-B	0.1776	0.0364
13OC	0.3713	0.0755
14-A	0.6567	0.0415
19-A	1.6170	0.2188
20-A	0.3796	0.0718
20-B	10.7334	0.5572
20-C	0.8068	0.0990
21-A	1.9207	0.1751
21-B	0.5197	0.1038
21-C	0.3630	0.0744
22-A	1.5117	0.1956
22-B	0.9328	0.1863
22-C	1.3414	0.1862
23-A	2.6740	0.2607
23-B	3.9155	0.5457
23-C	1.8148	0.2781

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

Station Replicate	Dry Weight (g)	Organic Weight (g)
24-A	10.9819	0.7080
24-B	7.4391	0.3543
24-C	3.0865	0.1717
25-A	9.7090	0.7075
25-B	14.7349	0.8490
25-C	7.4832	0.4972
26-A	11.1971	0.8894
26-B	9.9603	0.6064
26-C	6.2476	0.3262
27-A	6.3388	0.5321
27-B	5.6134	0.4621
27-C	2.4890	0.1868
28-A	6.0296	0.1824
28-B	1.6724	0.0745
28-C	4.3792	0.2457
29-A	2.6244	0.2735
29-B	6.7532	0.6911
29-C	6.9411	0.7437
30-A	11.8024	0.7831
30-B	6.3410	0.4240
30-C	3.4446	0.2911
31-A	11.0818	0.3021
31-B	1.5782	0.1387
31-C	4.6953	0.4362
32-A	8.2016	0.6431
32-B	16.1350	0.5892
32-C	5.9869	0.5146
33-A	1.4461	0.1342
33-B	1.7909	0.1924
33-C	6.1693	0.6310
34-A	5.7462	0.2380
34-B	9.1218	0.8559
34-C	1.9316	0.2441
35-A	7.3613	0.5833
35-B	3.4992	0.5793
35-C	1.6494	0.1763

APPENDIX H-9-4

CHLOROPHYLL a OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST-SEPTEMBER 1976

APPENDIX H-9-4

CHLOROPHYLL a OF PERIPHYTON DURING
RBOSP AQUATIC BASELINE STUDIES AUGUST-SEPTEMBER 1976

Station	Replicate A	B	C
1	0.0020	0.0007	0.0056
2	0.0007	0.0007	0.0020
3	0.0002	0.0017	0.0013
4	0.0015	0.0009	0.0024
5	0.0037	0.0039	0.0018
7	0.0007	0.0002	0.0008
8	0.0051	0.0045	0.0012
9	0.0005	0.0012	0.0049
13	0.0007	0.0007	0.0002
14	0.0003	--	--
19	0.0017	--	--
20	0.0079	0.0019	0.0047
21	Lab error	0.0002	0.0038
22	0.0010	0.0065	0.0026
23	0.0091	0.0107	0.0066
24	0.0097	0.0079	0.0067
25	0.0038	0.0249	0.0096
26	0.0097	0.0130	0.0063
27	0.0034	0.0115	0.0061
28	0.0072	0.0078	0.0049
29	0.0057	0.0047	0.0080
30	0.0110	0.0150	0.0101
31	0.0086	0.0104	0.0060
32	0.0102	0.0070	0.0085
33	0.0031	0.0035	0.0009
34	0.0033	0.0036	0.0064
35	0.0032	0.0035	0.0014

APPENDIX H-9-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST- SEPTEMBER 1976

APPENDIX H-9-5

ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.

CYANOPHYTA

Calothrix spp

CHLOROPHYTA

Cladophora spp

CHRYSOPHYTA

Cyclotella meneghiniana
Diatoma vulgare
Fragilaria leptostauron
Fragilaria vaucheriae
Synedra pulchella
Synedra ulna
Cocconeis pediculus
Cocconeis placentula
Achnanthes lanceolata
Achnanthes minutissima
Gyrosigma acuminatum
Pleurosigma delicatulum
Navicula cryptocephala
Navicula oblonga
Navicula pelliculosa
Navicula salinarum var. *intermedia*
Navicula tripunctata
Navicula viridula
Caloneis ventricosa
Amphora ovalis var. *pediculus*
Cymbella affinis
Cymbella sinuata
Cymbella ventricosa
Gomphonema gracile
Gomphonema intricatum
Gomphonema olivacium
Gomphonema parvulum
Gomphonema ventricosum
Epithemia sorex
Epithemia zebra
Rhopalodia gibba
Nitzschia acicularis
Nitzschia amphibia
Nitzschia apiculata
Nitzschia capitellata
Nitzschia chasei
Nitzschia dissipata

Nitzschia fonticola
Nitzschia frustulum
Nitzschia holsatica
Nitzschia microcephala
Surirella ovalis

APPENDIX H-9-6

DENSITIES OF ALGAL TAXA OBSERVED IN THE
PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

DENSITIES OF ALGAL TAXA OBSERVED IN THE PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.
(Data are expressed as cells/mm^2)

COLLECTION METHOD - SCRAPINGS

SITE = 83

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	207.00	15.00	6.00	76.00
GROUP MEAN				76.00
CHRYSOPHYTA				
COCCONEIS PEDICULUS	2.00	64.00	2.00	22.67
COCCONEIS PLACENTULA	4.00	702.00	24.00	243.33
ACHNANTHES LANCEOLATA	2.00			.67
ACHNANTHES MINUTISSIMA	24.00		3.00	9.00
NAVICULA CRYPTOCEPHALA	4.00	4.00	4.00	4.00
NAVICULA PELLICULOSA		4.00	2.00	2.00
NAVICULA SALINARUM VAR. INTERMEDIA		4.00	2.00	2.00
AMPHORA OVALIS VAR. PEDICULUS		8.00	8.00	5.33
CYMBELLA SINUATA			2.00	.67
GOMPHONEMA INTRICATUM		19.00	15.00	11.33
GOMPHONEMA PARVULUM			2.00	.67
EPITHEMIA SOREX	16.00	26.00		14.00
NITZSCHIA ACICULARIS	2.00			.67
NITZSCHIA CAPITELLATA		4.00		1.33
NITZSCHIA CHASEI			4.00	1.33
NITZSCHIA DISSIPATA			2.00	.67

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 83

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
NITZSCHIA FRUSTULUM	6.00			2.00
NITZSCHIA HULSATICA		8.00	6.00	4.67
NITZSCHIA MICROCEPHALA			2.00	.67
GROUP MEAN				327.00

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 87

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	63.00	63.00	48.00	58.00
GROUP MEAN				58.00
CHRYSOPHYTA				
CYCLOTELLA MENEGHINIANA		9.00		3.00
DIATOMA VULGARE		9.00		3.00
COCCONEIS PEDICULUS	9.00	18.00	9.00	12.00
COCCONEIS PLACENTULA	69.00	540.00	72.00	227.00
ACHNANTHES LANCEOLATA	3.00		9.00	4.00
ACHNANTHES MINUTISSIMA	9.00	9.00	6.00	8.00
GYROSIGMA ACUMINATUM			3.00	1.00
NAVICULA CRYPTOCEPHALA	6.00	9.00	12.00	9.00
NAVICULA SALINARUM VAR. INTERMEDIA	3.00			1.00
NAVICULA TRIPUNCTATA		9.00		3.00
NAVICULA VIRIDULA		18.00		6.00
CALONEIS VENTRICOSA			3.00	1.00
AMPHORA OVALIS VAR. PEDICULUS		9.00		3.00
CYMBELLA SINUATA			3.00	1.00
GOMPHONEMA INTRICATUM	36.00	207.00	15.00	86.00
GOMPHONEMA OLIVACEUM			3.00	1.00

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 87

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA PARVULUM	3.00			1.00
EPITHEMIA SOREX	222.00	648.00	18.00	296.00
EPITHEMIA ZEBRA	9.00		3.00	4.00
RHOPALODIA GIBBA	3.00			1.00
NITZSCHIA DISSIPATA	9.00	18.00		9.00
NITZSCHIA FONTICOLA		9.00		3.00
NITZSCHIA FRUSTULUM	15.00	18.00	3.00	12.00
NITZSCHIA MICROCEPHALA			3.00	1.00
SURIRELLA OVALIS	3.00			1.00
GROUP MEAN				697.00

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 89

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	90.00	13.00	7.00	36.67
GROUP MEAN				36.67
CHLOROPHYTA				
CLADOPHORA SPP		.02	2.00	.67
GROUP MEAN				.67
CHRYSOPHYTA				
FRAGILARIA VAUCHERIAE			1.00	.33
SYNEDRA PULCHELLA			2.00	.67
SYNEDRA ULNA		2.00		.67
COCCONEIS PEDICULUS	3.00	22.00	1.00	8.67
COCCONEIS PLACENTULA	264.00	209.00	59.00	177.33
ACHNANTHES LANCEOLATA	3.00		1.00	1.33
ACHNANTHES MINUTISSIMA	3.00	2.00	5.00	3.33
PLEUROSIGMA DELICATULUM		2.00		.67
NAVICULA CRYPTOCEPHALA	9.00	4.00	6.00	6.33
NAVICULA SALINARUM VAR. INTERMEDIA			5.00	1.67
NAVICULA TRIPUNCTATA		2.00		.67
AMPHORA OVALIS VAR. PEDICULUS		7.00	1.00	2.67

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 89

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
CYMBELLA AFFINIS	3.00	2.00		1.67
CYMBELLA SINUATA	6.00		1.00	2.33
GOMPHONEMA GRACILE		7.00		2.33
GOMPHONEMA INTRICATUM		66.00	4.00	23.33
GOMPHONEMA OLIVACEUM	3.00	7.00	5.00	5.00
GOMPHONEMA PARVULUM	3.00	9.00	2.00	4.67
GOMPHONEMA VENTRICOSUM		2.00		.67
EPITHEMIA SOREX	165.00		7.00	57.33
NITZSCHIA CHASEI		2.00		.67
NITZSCHIA DISSIPATA		4.00	1.00	1.67
NITZSCHIA FRUSTULUM	9.00		11.00	6.67
NITZSCHIA HOLSATICA	6.00		5.00	3.67
NITZSCHIA MICROCEPHALA	3.00	2.00		1.67
GROUP MEAN				316.00

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 95

TAXON	REP A	REP B	REP C	MEAN
CYANOPHYTA				
CALOTHRIX SPP	27.00	888.00	192.00	369.00
GROUP MEAN				369.00
CHRYSOPHYTA				
FRAGILARIA LEPTOSTAURON		6.00		2.00
COCCONEIS PEDICULUS			48.00	16.00
COCCONEIS PLACENTULA	90.00	282.00	264.00	212.00
ACHNANTHES LANCEOLATA	3.00	6.00	12.00	7.00
ACHNANTHES MINUTISSIMA	6.00	18.00	24.00	16.00
PLEUROSIGMA DELICATULUM	.03			.01
NAVICULA CRYPTOCEPHALA	12.00		18.00	10.00
NAVICULA OBLONGA	.03			.01
NAVICULA SALINARUM VAR. INTERMEDIA		36.00	6.00	14.00
NAVICULA TRIPUNCTATA		12.00		4.00
AMPHORA OVALIS VAR. PEDICULUS		6.00		2.00
CYMBELLA SINUATA		30.00	24.00	18.00
CYMBELLA VENTRICOSA		6.00		2.00
GOMPHONEMA INTRICATUM	120.00	57.00	150.00	109.00
GOMPHONEMA OLIVACEUM			6.00	2.00
GOMPHONEMA PARVULUM	3.00	48.00	36.00	29.00

Appendix H-9-6 (Continued)

COLLECTION METHOD - SCRAPINGS

SITE = 95

TAXON	REP A	REP B	REP C	MEAN
CHRYSOPHYTA				
GOMPHONEMA VENTRICOSUM		6.00		2.00
EPITHEMIA SOREX	93.00	552.00	288.00	311.00
EPITHEMIA ZEBRA	6.00	24.00	6.00	12.00
RHOPALODIA GIBBA		6.00		2.00
NITZSCHIA AMPHIBIA		6.00		2.00
NITZSCHIA APICULATA			6.00	2.00
NITZSCHIA CHASEI	3.00			1.00
NITZSCHIA DISSIPATA		6.00		2.00
NITZSCHIA FRUSTULUM	12.00	24.00	12.00	16.00
NITZSCHIA HOLSATICA			6.00	2.00
GROUP MEAN				795.02

APPENDIX H-9-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1976

APPENDIX H-9-7

DRY AND ORGANIC WEIGHT OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST-SEPTEMBER 1976

Station Replicate	Dry Weight (g)	Organic Weight (g)
23-A	0.0552	0.0062
23-B	0.0816	0.0093
23-C	0.0264	0.0037
27-A	0.1731	0.0165
27-B	0.1597	0.0152
27-C	0.1324	0.0168
29-A	0.0632	0.0081
29-B	0.0347	0.0051
29-C	0.0359	0.0042
35-A	0.3953	0.0320
35-B	0.2096	0.0180
35-C	0.1228	0.0119

APPENDIX H-9-8

CHLOROPHYLL *a* OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES
DURING RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-9-8

CHLOROPHYLL a OF PERIPHYTON FROM ARTIFICIAL SUBSTRATES DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST-SEPTEMBER 1976
(Data are expressed as mg/cm^2)

Station	Replicate		
	A	B	C
23	0.0005	0.0001	0.0001
27	0.0037	0.0024	0.0026
29	0.0004	0.0001	0.0105
35*	0.0003	0.0012	0.0013

*Using 100% filtered.

2.4.5 Benthos

Appendix H-10-1 lists the 149 Benthic taxa observed during the July - August 1976 sampling, and Appendix H-11-1 lists the 117 benthic taxa observed during the August - September 1976 sampling period. Quantitative benthos data for for the July - August 1976 and the August - September 1976 sampling periods are presented in Appendices H-10-2 and H-11-2, respectivey

During the July - August sampling, the most abundant taxa at the headwater stations were Chironomidae, Oligochaeta, Hyallela azteca, and Tricladida. At the tract stations, the most abundant taxa were Chironomidae, Simuliidae, and Oligochaeta. The most abundant taxa at the Yellow Creek habitat included Chironomidae, Oligochaeta, Simuliidae, and Ceratopogonidae. At the White River stations, the most abundant taxa included Tricorythodes, Rhithrogena, Chironomidae, and Oligochaeta.

During the August - September sampling period, the most abundant taxa at the headwater stations were Chironomidae, Simuliidae, Ceratopogonidae, Hyallela azteca, and Oligochaeta. The most abundant taxa at the tract stations were the Nematoda, Chironomidae, Simuliidae, Oligochaeta. At the Yellow Creek habitat, Oligochaeta, Simuliidae, Chironomidae, and Ceratopogonidae were the most abundant; and the most abundant taxa at the White River stations were the Oligochaeta, Tricorythodes, Chironomidae, and Rhithrogena.

Note: Benthos Appendices

Where *Labrundinia* is listed, should read *Nilotanypus*

2.4.5 - Benthos Data

BENTHOS RAW DATA

APPENDIX H-10-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-10-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.

PLATYHELMINTHES
TURBELLARIA
TRICLADIDA

UNIDENTIFIED

NEMATODA

MOLLUSCA
GASTROPODA
BASOMMATOPHORA

LYMNAEIDAE

LYMNAEA
SP

MOLLUSCA
GASTROPODA
BASOMMATOPHORA

PHYSIDAE

PHYSA
SP

ANNELIDA
HIRUDINEA
RHYNCHOBDELLIDA

GLOSSIPHONIIDAE

HELOBDELLA
STAGNALIS

2.4.5.1034

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

HAPLOTAXIDAE

HAPLOTAXIS
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

ENCHYTRAEIDAE

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

UNIDENTIFIED
SP. 1

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

UNIDENTIFIED
SP. 2

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

ILYODRILUS
TEMPLETONI

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

RHYACODRILINAE
SODALIS

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

TUBIFEX
TUBIFEX

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

IMMATURES WITH CAP. CHAETAE
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

IMMATURES W/O CAP. CHAETAE
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

NAIDIDAE

CHAETOGASTER
DIASTROPHUS

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

NAIDIDAE

NAIS
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

NAIDIDAE

NAIS
BEHNINGI

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

NAIDIDAE

PRISTINA
SP

ARTHROPODA
ARACHNOIDEA
ACARI

ARTHROPODA
CRUSTACEA
AMPHIPODA

TALITRIDAL

HYALELLA
AZTECA

ARTHROPODA
INSECTA
COLLEMBOLA

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
BAETIS
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
CALLIBAETIS
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
DACTYLOBAETIS
SP
LARVAE

```
ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            HEPTAGENIIDAE

                  EPEORUS
                     LONGIMANIS
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            HEPTAGENIIDAE

                  HEPTAGENIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            HEPTAGENIIDAE

                  RHITHROGENA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            LEPTOPHLEBIIDAE

                  TRAVERELLA
                     ALBERTANA
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            LEPTOPHLEBIIDAE

                  CHOROTERPES
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            EPHEMERELLIDAE

                  EPHEMERELLA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            TRICORYTHIDAE

                  TRICORYTHODES
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            CAENIDAE

                  CAENIS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            POLYMITARCIDAE

                  EPHORON
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      ODONATA
         ZYGOPTERA
            COENAGRIONIDAE

                  UNIDENTIFIED

                        LARVAE
```

```
ARTHROPODA
   INSECTA
      ODONATA
         ZYGOPTERA
            COENAGRIONIDAE

                  ARGIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      ODONATA
         ANISOPTERA
            GOMPHIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA



                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         EUHOLOGNATHA
            CAPNIIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         SYSTELLOGNATHA
            NEMOURIDAE

                  NEMOURA
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      PLECOPTERA
         SYSTELLOGNATHA
            PERLODIDAE

                  ISOPERLA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         SYSTELLOGNATHA
            PERLODIDAE

                  ISOGENUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         SYSTELLOGNATHA
            CHLOROPERLIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         SYSTELLOGNATHA
            PERLIDAE

                  CLAASSENIA
                     SABULOSA
                        LARVAE

ARTHROPODA
   INSECTA
      HEMIPTERA

            VELIIDAE

                  RHAGOVELIA
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
HEMIPTERA

CORIXIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
COLEOPTERA

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
COLEOPTERA

HYDRAENIDAE

OCHTHEBIUS
SP
ADULTS

ARTHROPODA
INSECTA
COLEOPTERA

HALIPLIDAE

HALIPLUS
SP
LARVAE

ARTHROPODA
INSECTA
COLEOPTERA

HALIPLIDAE

PELTODYTES
SP
LARVAE

ARTHROPODA
INSECTA
COLEOPTERA
DYTISCIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
COLEOPTERA
DYTISCIDAE
DERONECTES
SP
ADULTS

ARTHROPODA
INSECTA
COLEOPTERA
HYDROPHILIDAE
BEROSUS
SP
ADULTS

ARTHROPODA
INSECTA
COLEOPTERA
DRYOPIDAE
HELICHUS
SP
LARVAL

ARTHROPODA
INSECTA
COLEOPTERA
ELMIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
COLEOPTERA
ELMIDAE
UNIDENTIFIED
ADULTS

ARTHROPODA
INSECTA
COLEOPTERA
ELMIDAE
MICROCYLLOEPUS
SP
LARVAE

ARTHROPODA
INSECTA
COLEOPTERA
ELMIDAE
ZAITZEVIA
SP
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
GLOSSOSOMATIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
HYDROPSYCHE
SP
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
HYDROPSYCHE
SCALARIS
PUPAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
CHEUMATOPSYCHE
SP
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPTILIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPTILIDAE
UNIDENTIFIED
PUPAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPTILIDAE
AGRAYLEA
SP
PUPAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPTILIDAE
MAYATRICHIA
SP
PUPAE

ARTHROPODA
INSECTA
TRICHOPTERA
LIMNEPHILIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
LEPTOCERIDAE
OECETIS
SP
LARVAE

2.4.5.1048

```
ARTHROPODA
   INSECTA
      TRICHOPTERA

            BRACHYCENTRIDAE

                  BRACHYCENTRUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      LEPIDOPTERA

            PYRALIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA


                  UNIDENTIFIED

                        PUPAE

ARTHROPODA
   INSECTA
      DIPTERA

            TIPULIDAE

                  UNIDENTIFIED

                        PUPAE

ARTHROPODA
   INSECTA
      DIPTERA

            TIPULIDAE

                  ORMOSIA
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
DICRANOTA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
PEDICIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
LIMNOPHILA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
HOLORUSIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CERATOPOGONIDAE
UNIDENTIFIED
LARVAE

```
ARTHROPODA
   INSECTA
      DIPTERA

            CERATOPOGUNIDAE

                  UNIDENTIFIED

                        PUPAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE

                  UNIDENTIFIED

                        PUPAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  MACROPELOPIA
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  PSECTROTANYPUS
                     (APSECTROTANYPUS)
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  THIENEMANNIMYIA GROUP
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  DIAMESINAE
                     SP. 1
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  MONODIAMESA
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  ODONTOMESA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  PSEUDODIAMESA
                     PERTINAX
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONUMIDAE
               ORTHOCLADIINAE
                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  ACRICOTOPUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONUMIDAE
               ORTHOCLADIINAE
                  CARDIOCLADIUS
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  CRICOTOPUS
                     ISOCLADIUS SYLVESTRIS GRP.
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  DIPLOCLADIUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  EUKIEFFERIELLA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  KRENOSMITTIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  LIMNOPHYES
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  MESOSMITTIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  NANOCLADIUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  ORTHOCLADIUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  ORTHOCLADIUS
                     EUORTHOCLADIUS
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  PARACLADIUS
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PARAKIEFFERIELLA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PARAPHAENOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PARAMETRIOCNEMUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PARORTHOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PSEUDOSMITTIA
SP
LARVAE

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  THIENEMANNIELLA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               ORTHOCLADIINAE
                  ORTHOCLADIINAE
                     SP. 1
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  CHIRONOMINI
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  CHIRONOMUS
                     SP. GROUP 2
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  CRYPTOCHIRONOMUS
                     SP
                        LARVAE
```

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  HARNISCHIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  LAUTERBORNIELLA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  MICROTENDIPES
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  PARACLADOPELMA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  PARATENDIPES
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PHAENOPSECTRA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
POLYPEDILUM
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
POLYPEDILUM
FALLAX GROUP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRUNOMINAE
POLYPEDILUM
TRIPODURA GRP.
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PSEUDOCHIRONOMUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
CHIRONOMINAE
STICTOCHIRONOMUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
CHIRONOMINAE
TANYTARSINI
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
CHIRONOMINAE
TANYTARSUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
CHIRONOMINAE
CLADOTANYTARSUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
CHIRONOMINAE
MICROPSECTRA
SP
LARVAE

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  PARATANYTARSUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  RHEOTANYTARSUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            SIMULIIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            SIMULIIDAE

                  SIMULIUM
                     SP
                        PUPAE

ARTHROPODA
   INSECTA
      DIPTERA

            STRATIOMYIDAE

                  UNIDENTIFIED

                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA

STRATIOMYIDAE

EUPARYPHUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

TABANIDAE

CHRYSOPS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

RHAGIONIDAE

ATHERIX
VARIEGATA
LARVAE

ARTHROPODA
INSECTA
DIPTERA

EMPIDIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
DIPTERA

EMPIDIDAE

UNIDENTIFIED

PUPAE

ARTHROPODA
INSECTA
DIPTERA

ANTHOMYIIDAE

LIMNOPHORA
SP
LARVAE

ARTHROPUDA
INSECTA
DIPTERA

ANTHOMYIIDAE

LIMNOPHORA
AEQUIFRONS
LARVAE

ARTHROPUDA
INSECTA
DIPTERA

ANTHOMYIIDAE

LIMNOPHORA
DISCRETA
LARVAE

APPENDIX H-10-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976.[1,2]

SITE = 01 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED				
----------	2860	1901	3186	2649.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	2769	2950	2806	2841.67
BAETIS SP				
------ --				
LARVAE		72	18	30.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	54			18.00
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
------- --				
LARVAE	290	109	272	223.67
CHLOROPERLIDAE				
UNIDENTIFIED				

LARVAE	109	18	181	102.67
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
------- --				
LARVAE	36		36	24.00
DICRANOTA SP				
--------- --				
LARVAE	145	109	91	115.00
PEDICIA SP				
------- --				
LARVAE		18		6.00

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

Collection method: Stations 1 - 22 = Elliptical Surber; Stations 23-35 = Tall Surber

2.4.5.1065

Appendix H-10-2 (Continued)

SITE = 01 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	127	36	72	78.33
CHIRONOMIDAE				
DIAMESINAE				
PSEUDODIAMESA PERTINAX				
LARVAE		18		6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36			12.00
EUKIEFFERIELLA SP				
LARVAE	18			6.00
PARORTHOCLADIUS SP				
LARVAE			18	6.00

Appendix H-10-2 (Continued)

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP				
---- --			18	6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	1376	1140	1376	1297.33
PLECOPTERA				
UNIDENTIFIED				

LARVAE	109	54	54	72.33
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
------- --				
LARVAE	36			12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	18		18	12.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
--------- --				
LARVAE	109	72	36	72.33
HOLORUSIA SP				
--------- --				
LARVAE			54	18.00
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE			18	6.00
DIAMESINAE				
UNIDENTIFIED				

LARVAE		18		6.00

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE	18		54	24.00
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
LARVAE	706	72	272	350.00
ORTHOCLADIUS SP				
LARVAE	18		36	18.00
PARAPHAENOCLADIUS SP				
LARVAE			18	6.00
PARORTHOCLADIUS SP				
LARVAE	36		18	18.00
CHIRONOMINAE				
PHAENOPSECTRA SP				
LARVAE		18		6.00
TANYTARSUS SP				
LARVAE	18			6.00
MICROPSECTRA SP				
LARVAE	18	36	127	60.33

2.4.5.1068

Appendix H-10-2 (Continued)

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	525	308	453	428.67

2.4.5.1069

Appendix H-10-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	72	72		48.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP				
---- --	507	91	272	290.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	91	127	163	127.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	109	18	18	48.33
COLEOPTERA				
UNIDENTIFIED				

LARVAE	72	72	72	72.00
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	18	36		18.00
TRICHOPTERA				
UNIDENTIFIED				

LARVAE		18		6.00
LIMNEPHILIDAE				
UNIDENTIFIED				

LARVAE	54	18		24.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
--------- --				
LARVAE	36			12.00

2.4.5.1070

Appendix H-10-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36	18	235	96.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	36	36	36	36.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	833	471	1701	1001.67
CORYNONEURA SP				
LARVAE		72		24.00
EUKIEFFERIELLA SP				
LARVAE		1249		416.33
ORTHOCLADIUS SP				
LARVAE	3729	3294	2570	3197.67
PARACLADIUS SP				
LARVAE			344	114.67
PARAKIEFFERIELLA SP				
LARVAE		72		24.00
PARAPHAENOCLADIUS SP				
LARVAE	16960	5014	11620	11198.00

SITE = 03 REPS= 3

Appendix H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAMETRIOCNEMUS SP				
LARVAE	615	235	1376	742.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE			163	54.33
PHAENOPSECTRA SP				
LARVAE	199		163	120.67
MICROPSECTRA SP				
LARVAE	199		163	120.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	109	344	272	241.67
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE	36			12.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	72	36		36.00

2.4.5.1072

Appendix H-10-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		36	54	30.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18		6.00
NAIDIDAE				
NAIS SP				
---- --	36	54	36	42.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	1720	3276	2987	2661.00
BAETIS SP				
------ --				
LARVAE	54	54	109	72.33
PLECOPTERA				
UNIDENTIFIED				

LARVAE		36	36	24.00
COLEOPTERA				
UNIDENTIFIED				

LARVAE	18			6.00
DYTISCIDAE				
UNIDENTIFIED				

LARVAE			18	6.00
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
--------- --				
LARVAE		18		6.00

2.4.5.1073

Appendix H-10-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	36	18	36	30.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	36	18		18.00
CHIRONOMIDAE				
TANYPODINAE				
MACROPELOPIA SP				
LARVAE	54			18.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE		36		12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	199	36	235	156.67
CORYNONEURA SP				
LARVAE	54	36	36	42.00
EUKIEFFERIELLA SP				
LARVAE	453	1122	489	688.00
ORTHOCLADIUS SP				
LARVAE	109	398	344	283.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		36		12.00

2.4.5.1074

Appendix H-10-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARACLADIUS SP				
LARVAE	36		109	48.33
PARAKIEFFERIELLA SP				
LARVAE	471	181	199	283.67
PARAPHAENOCLADIUS SP				
LARVAE	923	2444	2027	1798.00
PARAMETRIOCNEMUS SP				
LARVAE	91	362	235	229.33
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE			36	12.00
PARACLADOPELMA SP				
LARVAE	36			12.00
PARATENDIPES SP				
LARVAE			36	12.00
PHAENOPSECTRA SP				
LARVAE	615	272	109	332.00
POLYPEDILUM FALLAX GROUP				
LARVAE		181	453	211.33

Appendix H-10-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE			36	12.00
MICROPSECTRA SP				
LARVAE	163	127		96.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	634	1593	1195	1140.67
SIMULIUM SP				
PUPAE	36	54	36	42.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	127	18	163	102.67
LIMNOPHORA DISCRETA				
LARVAE		54	18	24.00

Appendix H-10-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	634	2444	2226	1768.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
PHYSIDAE				
PHYSA SP				
----- --	36	127		54.33
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS				
---------- ---------	905	869	996	923.33
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			36	12.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1				
---------- -- -	18		72	30.00
ILYODRILUS TEMPLETONI				
---------- ----------	72			24.00
LIMNODRILUS HOFFMEISTERI				
---------- ----------				
TYPICAL	18			6.00
RHYACODRILINAE SP				
---------- --	145	996	724	621.67
RHYACODRILINAE SEDALIS				
---------- -------			724	241.33

Appendix H-10-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	2860	688	959	1502.33
IMMATURES W/O CAP. CHAETAE SP	869	326	597	597.33
NAIDIDAE				
PRISTINA SP			18	6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	36	36	18	30.00
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	1484	3312	3421	2739.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	18	54	18	30.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE		36	18	18.00
ARGIA SP				
LARVAE		91	18	36.33
COLEOPTERA				
HALIPLIDAE				
HALIPLUS SP				
LARVAE	18			6.00

2.4.5.1078

Appendix H-10-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS	36	199	217	150.67
DRYOPIDAE				
HELICHUS SP				
LARVAE		18	18	12.00
ELMIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
UNIDENTIFIED				
ADULTS		18		6.00
TRICHOPTERA				
UNIDENTIFIED				
LARVAE		18	217	78.33
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	36	36		24.00
HYDROPSYCHE SP				
LARVAE	18	18		12.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	163	453	561	392.33
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE		18		6.00

Appendix H-10-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	453	959	615	675.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	163	507	235	301.67
TANYPODINAE				
MACROPELOPIA SP				
LARVAE	36			12.00
THIENEMANNIMYIA GROUP SP				
LARVAE	72	543		205.00
DIAMESINAE				
ODONTOMESA SP				
LARVAE		72		24.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	181	1720	2389	1430.00
CORYNONEURA SP				
LARVAE	36	163	253	150.67
ORTHOCLADIUS SP				
LARVAE	2389	4235	4851	3825.00
THIENEMANNIELLA SP				
LARVAE	36	235	489	253.33

Appendix H-10-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
LAUTERBORNIELLA SP				
LARVAE			91	30.33
TANYTARSUS SP				
LARVAE	525	471	326	440.67
MICROPSECTRA SP				
LARVAE	706	1339	905	983.33
PARATANYTARSUS SP				
LARVAE		163		54.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18	235	54	102.33
SIMULIUM SP				
PUPAE	18	54	18	30.00

Appendix H-10-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	543	72	416	343.67
ARTHROPODA				
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	18	217		78.33
COLEOPTERA				
UNIDENTIFIED				
LARVAE	127	54	290	157.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE			18	6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	91	72	253	138.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	36	18	18	24.00
TANYPODINAE				
MACROPELOPIA SP				
LARVAE	18			6.00

2.4.5.1082

Appendix H-10-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE			18	6.00
THIENEMANNIMYIA GROUP SP				
LARVAE		18		6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	36	72	72	60.00
CORYNONEURA SP				
LARVAE		18		6.00
EUKIEFFERIELLA SP				
LARVAE	18	18		12.00
ORTHOCLADIUS SP				
LARVAE	579	72	344	331.67
PARACLADIUS SP				
LARVAE	18			6.00
PARAPHAENOCLADIUS SP				
LARVAE	416	181	471	356.00
PARANETRICCNEMUS SP				
LARVAE	109	72	145	108.67

Appendix H-10-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PSEUDOSMITTIA SP				
LARVAE			36	12.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	18		36	18.00
MICROTENDIPES SP				
LARVAE	253	18	127	132.67
PHAENOPSECTRA SP				
LARVAE	163	199	217	193.00
TANYTARSUS SP				
LARVAE	199	18	91	102.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		72	18	30.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			18	6.00

2.4.5.1084

Appendix H-10-2 (Continued)

SITE = 08 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED				
----------	54	18		24.00
ANNELIDA				
CLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18	36		18.00
NAIDICAE				
NAIS SP				
---- --	36	18	36	30.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	5032	2389	2968	3463.00
BAETIS SP				
------ --				
LARVAE	308	18	54	126.67
HEPTAGENIIDAE				
EPEORUS LONGIMANIS				
------- ----------				
LARVAE	18		36	18.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	18	109	18	48.33
EUHOLOGNATHA				
CAPNIIDAE				
UNIDENTIFIED				

LARVAE	91			30.33
SYSTELLOGNATHA				
NEMOURIDAE				
NEMOURA SP				
------- --				
LARVAE	36	18	18	24.00

SITE = 08 REPS= 3

Appendix H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18	18	18	18.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	36	72	91	66.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	36		18.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18			6.00
CORYNONEURA SP				
LARVAE	72	72		48.00
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
LARVAE	579	54	163	265.33
ORTHOCLADIUS SP				
LARVAE	36			12.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	72		18	30.00

2.4.5.1086

Appendix H-10-2 (Continued)

SITE = C8 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	543	471	398	470.67
THIENEMANNIELLA SP				
LARVAE	36		36	24.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	18	36	36.00

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			54	18.00
NAIDIDAE				
CHAETOGASTER DIASTROPHUS			18	6.00
NAIS SP	36	72	18	42.00
NAIS BEHNINGI			18	6.00
ARTHROPODA				
INSECTA				
COLLEMBOLA		18		6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	579	326	887	597.33
BAETIS SP				
LARVAE	18	18	54	30.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	18	36	72	42.00

2.4.5.1088

Appendix H-10-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
UNIDENTIFIED				
LARVAE	163	54	181	132.67
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	109	54	72	78.33
DIPTERA				
TIPULIDAE				
DICRANOTA SP				
LARVAE		18		6.00
LIMNOPHILA SP				
LARVAE		18		6.00
HOLORUSIA SP				
LARVAE		18	18	12.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18	72	72	54.00
UNIDENTIFIED				
PUPAE			18	6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	127	36	36	66.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	36			12.00

Appendix H-10-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE		91	72	54.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	145	127	272	181.33
CORYNONEURA SP				
LARVAE	36	217	145	132.67
DIPLOCLADIUS SP				
LARVAE		36		12.00
EUKIEFFERIELLA SP				
LARVAE	543	833	905	760.33
ORTHOCLADIUS SP				
LARVAE	941	1231	1593	1255.00
ORTHOCLADIUS EUCRTHOCLADIUS				
LARVAE		36		12.00
PARACLADIUS SP				
LARVAE	109	127		78.67
PARAKIEFFERIELLA SP				
LARVAE	72			24.00

2.4.5.1090

Appendix H-10-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	1158	1575	3113	1948.67
PARAMETRIOCNEMUS SP				
LARVAE	290	1448	3041	1593.00
THIENEMANNIELLA SP				
LARVAE	72	91	145	102.67
CHIRONOMINAE				
PHAENOPSECTRA SP				
LARVAE	109	36	145	96.67
MICROPSECTRA SP				
LARVAE	145	91	72	102.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	670	1448	1122	1080.00
SIMULIUM SP				
PUPAE	109	217	109	145.00
STRATIOMYIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	18	36	36.00

2.4.5.1091

Appendix H-10-2 (Continued)

SITE = 09 REPS= 3

TAXCA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA DISCRETA				
LARVAE	54	36	72	54.00

Appendix H-10-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54		36	30.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
HAPLOTAXIDAE				
HAPLOTAXIS SP				
---------- --			18	6.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1				
------------ -- -			18	6.00
IMMATURES W/O CAP. CHAETAE SP				
--------- - - --- ------- --		18		6.00
NAIDIDAE				
NAIS SP				
---- --	127	54	109	96.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	18			6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	416	398	308	374.00
BAETIS SP				
------ --				
LARVAE	54	54	36	48.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	54	18	72	48.00

Appendix H-10-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOPERLA SP				
LARVAE		36		12.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	18	54	36	36.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	163	18	36	72.33
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
UNIDENTIFIED				
PUPAE	91	18	109	72.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	54	36	36	42.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE	18		18	12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	109	18	36	54.33
CORYNONEURA SP				
LARVAE	54			18.00

Appendix H-10-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	181	380	453	338.00
KRENOSMITTIA SP				
LARVAE	18			6.00
ORTHOCLADIUS SP				
LARVAE	308	109	326	247.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE		145	91	78.67
PARAPHAENOCLADIUS SP				
LARVAE	742	634	688	688.00
PARAMETRIOCNEMUS SP				
LARVAE	1104	597	579	760.00
THIENEMANNIELLA SP				
LARVAE	127	54	181	120.67
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	54	18		24.00
PHAENOPSECTRA SP				
LARVAE	453	235	272	320.00

2.4.5.1095

Appendix H-10-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE			18	6.00
MICROPSECTRA SP				
LARVAE	18		36	18.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	36	36	36	36.00
TABANIDAE				
CHRYSOPS SP				
LARVAE		18		6.00
EMPIDIDAE				
UNIDENTIFIED				
PUPAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	54	109	72.33
LIMNOPHORA DISCRETA				
LARVAE	36	54	18	36.00

2.4.5.1096

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			109	36.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	181		72	84.33
UNIDENTIFIED SP. 2	18			6.00
LIMNODRILUS HOFFMEISTERI				
TYPICAL		18		6.00
LIMNODRILUS PROFUNDICOLA	36			12.00
LIMNODRILUS UDEKEMIANUS	72	72		48.00
IMMATURES WITH CAP. CHAETAE SP	18	18	145	60.33
IMMATURES W/O CAP. CHAETAE SP	163	272	18	151.00
NAIDIDAE				
NAIS SP	923	18	1991	977.33

Appendix H-10-2 (Continued)

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
ARACHNOIDEA				
ACARI		18		6.00
INSECTA				
EPHEMEROPTERA				
BAETICAE				
UNIDENTIFIED				
LARVAE		18	235	84.33
CALLIBAETIS SP				
LARVAE			18	6.00
COLEOPTERA				
UNIDENTIFIED				
LARVAE	199	18	127	114.67
HYDRAENIDAE				
OCHTHEBIUS SP				
ADULTS		18	18	12.00
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	489		1593	694.00
DERONECTES SP				
ADULTS	109	18	127	84.67
DIPTERA				
UNIDENTIFIED				
PUPAE		18		6.00
TIPULIDAE				
UNIDENTIFIED				
PUPAE	18			6.00

2.4.5.1098

Appendix H-10-2 (Continued)

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	398	489	3222	1369.67
UNIDENTIFIED				
PUPAE			72	24.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE			18	6.00
TANYPODINAE				
MACROPELOPIA SP				
LARVAE	36	36	54	42.00
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE			91	30.33
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		54	326	126.67
CORYNONEURA SP				
LARVAE		18	54	24.00
ORTHOCLADIUS SP				
LARVAE	163	54	2335	850.67
PARAMETRIOCNEMUS SP				
LARVAE		36		12.00

Appendix H-10-2 (Continued)

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PSEUDOSMITTIA SP				
LARVAE	18			6.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		18		6.00
MICROTENDIPES SP				
LARVAE	36		290	108.67
PARACLADOPELMA SP				
LARVAE		18		6.00
PHAENOPSECTRA SP				
LARVAE	54	18		24.00
POLYPEDILUM FALLAX GROUP				
LARVAE		54		18.00
PSEUDOCHIRONOMUS SP				
LARVAE		18		6.00
TANYTARSINI SP				
LARVAE		18		6.00
TANYTARSUS SP				
LARVAE	36	145	851	344.00

Appendix H-10-2 (Continued)

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	181	18	1430	543.00
PARATANYTARSUS SP				
LARVAE			290	96.67
RHEOTANYTARSUS SP				
LARVAE		18		6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18	18	18	18.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		18		6.00

Appendix H-10-2 (Continued)

SITE = 19 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		18	18	12.00
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
LYMNAEIDAE				
LYMNAEA SP	163	543	36	247.33
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	145	507	91	247.67
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18			6.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1	36	36		24.00
LIMNODRILUS UDEKEMIANUS			36	12.00
IMMATURES WITH CAP. CHAETAE SP	127	706	778	537.00
IMMATURES W/O CAP. CHAETAE SP	91	199	253	181.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	145	525	72	247.33

2.4.5.1102

Appendix H-10-2 (Continued)

SITE = 15 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA				
-------- - ----	996	4398	525	1973.00
INSECTA				
COLLEMBOLA	18		18	12.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	217	326	308	283.67
CAENIDAE				
CAENIS SP				
------ --				
LARVAE			18	6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				

LARVAE	434	652	308	464.67
COLEOPTERA				
HALIPLIDAE				
PELTODYTES SP				
---------- --				
LARVAE			18	6.00
DYTISCIDAE				
UNIDENTIFIED				

LARVAE	18	54	36	36.00
DERONECTES SP				
---------- --				
ADULTS		18	18	12.00
ELMIDAE				
UNIDENTIFIED				

LARVAE	109	652	36	265.67

Appendix H-10-2 (Continued)

SITE = 15 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	326	724	181	410.33
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	905	1629	199	911.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	54	91	91	78.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	54		36	30.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	109	272	72	151.00
CORYNONEURA SP				
LARVAE			18	6.00
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE		109	36	48.33
LIMNOPHYES SP				
LARVAE	18	72		30.00
ORTHOCLADIUS SP				
LARVAE	1267	1665	887	1273.00

Appendix H-10-2 (Continued)

SITE = 1S REPS= 3

TAXCA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			18	6.00
PARAPHAENOCLADIUS SP				
LARVAE	199	72	36	102.33
PSEUDOSMITTIA SP				
LARVAE		18		6.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		18		6.00
PARATENDIPES SP				
LARVAE		18		6.00
MICROPSECTRA SP				
LARVAE	453	905	145	501.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	6245	29684	12634	16187.67
SIMULIUM SP				
PUPAE	109	253	1394	585.33
TABANIDAE				
CHRYSOPS SP				
LARVAE			18	6.00

Appendix H-10-2 (Continued)

SITE = 2C REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	127	109	145	127.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	18			6.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	36	253	54	114.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
CALLIBAETIS SP				
LARVAE			18	6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE	36	72	18	42.00
COLEOPTERA				
UNIDENTIFIED				
LARVAE	18	36	18	24.00
DYTISCIDAE				
DERONECTES SP				
ADULTS	344	54		132.67
ELMIDAE				
UNIDENTIFIED				
ADULTS		18		6.00

Appendix H-10-2 (Continued)

SITE = 2C REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			36	12.00
DIPTERA				
UNIDENTIFIED				
PUPAE		18		6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	489	308	54	283.67
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	163	1466	778	802.33
CORYNONEURA SP				
LARVAE	36	18		18.00
CRICOTOPUS SP				
LARVAE	36	235	127	132.67
CRICOTOPUS CRICOTOPUS				
LARVAE			72	24.00
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	181	235	127	181.00

Appendix H-10 2 (Continued)

SITE = 20 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	398	706	380	494.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE			18	6.00
TANYTARSINI SP				
LARVAE	18			6.00
TANYTARSUS SP				
LARVAE	72	36		36.00
MICROPSECTRA SP				
LARVAE	54		18	24.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	199	1158	3439	1598.67
SIMULIUM SP				
PUPAE	18	36		18.00

Appendix H-10-2 (Continued)

SITE = 21 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	127	91	272	163.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	18			6.00
IMMATURES WITH CAP. CHAETAE SP			18	6.00
IMMATURES W/O CAP. CHAETAE SP	724	72	1249	681.67
ARTHROPODA				
ARACHNOIDEA				
ACARI			18	6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	54	91	91	78.67
CALLIBAETIS SP				
LARVAE	18		18	12.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE		36	54	30.00
DERONECTES SP				
ADULTS	670	308	615	531.00

Appendix H-10-2 (Continued)

SITE = 21 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	181	145	416	247.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18		54	24.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	543	72	91	235.33
ACRICOTOPUS SP				
LARVAE	18		18	12.00
CORYNONEURA SP				
LARVAE	18			6.00
CRICOTOPUS SP				
LARVAE	272	235	36	181.00
CRICOTOPUS CRICOTOPUS				
LARVAE	91			30.33
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE			18	6.00

2.4.5.1110

Appendix H-10-2 (Continued)

SITE = 21 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	18	18	18	18.00
ORTHOCLADIUS SP				
LARVAE	416	308	272	332.00
PARAPHAENOCLADIUS SP				
LARVAE		18	18	12.00
CHIRONOMINAE				
PSEUDOCHIRONOMUS SP				
LARVAE			18	6.00
TANYTARSUS SP				
LARVAE		18	54	24.00
CLADOTANYTARSUS SP				
LARVAE			18	6.00
MICROPSECTRA SP				
LARVAE	18		36	18.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	91	127	91	103.00
SIMULIUM SP				
PUPAE		36	36	24.00

2.4.5.1111

Appendix H-10-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
UNIDENTIFIED SP. 1	18			6.00
LIMNODRILUS PROFUNDICOLA	453		18	157.00
IMMATURES WITH CAP. CHAETAE SP	18			6.00
IMMATURES W/O CAP. CHAETAE SP	1249	72	127	482.67
NAIDIDAE				
NAIS SP	1484	4398	2371	2751.00
PRISTINA SP			18	6.00
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		72	109	60.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	36	91	181	102.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18	109	163	96.67

2.4.5.1112

Appendix H-10-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS SP				
LARVAE		290	109	133.00
CRICOTOPUS CRICOTOPUS				
LARVAE		54		18.00
ORTHOCLADIUS SP				
LARVAE	344	1086	1376	935.33
PARAKIEFFERIELLA SP				
LARVAE		18		6.00
PARAPHAENOCLADIUS SP				
LARVAE			18	6.00
THIENEMANNIELLA SP				
LARVAE			18	6.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE			18	6.00
CHIRONOMUS SP. GROUP 2				
LARVAE			18	6.00
STICTOCHIRONOMUS SP				
LARVAE	54	145	91	96.67

Appendix H-10-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE			36	12.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		127	36	54.33

Appendix H-10-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
CLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			20	6.67
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP	20			6.67
IMMATURES W/O CAP. CHAETAE SP	20			6.67
NAIDIDAE				
NAIS SP	20			6.67
NAIS BEHNINGI		59	39	32.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	20		13.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	897	702	585	728.00
BAETIS SP				
LARVAE		20		6.67

SITE = 23 REPS= 3

Appendix H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
DACTYLOBAETIS SP				
LARVAE	20			6.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	39	20	98	52.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	78	59	293	143.33
CHOROTERPES SP				
LARVAE	20			6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	117	20	39	58.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	1014	1112	410	845.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20			6.67
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE		20		6.67

Appendix H-10-2 (Continued)

SITE = 23 REPS= 3

TAXA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	39	20	20	26.33
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	449	371	215	345.00
HYDROPSYCHE SP				
LARVAE	117	20	39	58.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39	20	39	32.67
HAYATRICHIA SP				
PUPAE	39	20	20	26.33
LEPTOCERIDAE				
OECETIS SP				
LARVAE	39	59		32.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	39			13.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	137	117		84.67
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20	20		13.33

Appendix H-10-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PSEUDOSMITTIA SP				
LARVAE	20			6.67
ORTHOCLADIINAE SP. 1				
LARVAE	20			6.67
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE		20		6.67
PHAENOPSECTRA SP				
LARVAE	39			13.00
POLYPEDILUM SP				
LARVAE		39		13.00
CLADOTANYTARSUS SP				
LARVAE	39	39		26.00
RHEOTANYTARSUS SP				
LARVAE		59	20	26.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	137	20	98	85.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		20		6.67

Appendix H-10-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20	39		19.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		20		6.67
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	176	273	293	247.33
IMMATURES WITH CAP. CHAETAE SP		20	59	26.33
IMMATURES W/O CAP. CHAETAE SP	546	858	624	676.00
NAIDIDAE				
NAIS BEHNIAGI	410	20		143.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	78			26.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1209	722	507	812.67
DACTYLOBAETIS SP				
LARVAE	137	98	59	98.00

Appendix H-10-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE			20	6.67
RHITHROGENA SP				
LARVAE	98	78	59	78.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	59	137	663	286.33
CHOROTERPES SP				
LARVAE	254	98	215	189.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	59	78	59	65.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	1716	2594	2886	2398.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		20		6.67
COLEOPTERA				
HYDROPHILIDAE				
BEROSUS SP				
ADULTS		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	332	254	156	247.33

2.4.5.1120

Appendix H-10-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		39		13.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	59	78	78	71.67
MAYATRICHIA SP				
PUPAE		78	20	32.67
LEPTOCERIDAE				
DECETIS SP				
LARVAE			20	6.67
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE		20		6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	215	39	104.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		13.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	59	20	59	46.00
DIAMESINAE				
MONODIAMESA SP				
LARVAE	98	39	59	65.33

Appendix H-10-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		20		6.67
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE		20	20	13.33
EUKIEFFERIELLA SP				
LARVAE	39		98	45.67
PARAKIEFFERIELLA SP				
LARVAE	20			6.67
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
ORTHOCLADIINAE SP. 1				
LARVAE	39			13.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	59	20		26.33
MICROTENDIPES SP				
LARVAE	137	156	39	110.67
PHAENOPSECTRA SP				
LARVAE	78	39		39.00

2.4.5.1122

Appendix H-10-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	234	98	98	143.33
CLADOTANYTARSUS SP				
LARVAE	98	59		52.33
RHEOTANYTARSUS SP				
LARVAE	20	78	78	58.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE			20	6.67

Appendix H-10-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20	20	20	20.00
NAIDIDAE				
NAIS SP		39		13.00
NAIS BEHNINGI		39	59	32.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	59	20	33.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	215	683	351	416.33
DACTYLOBAETIS SP				
LARVAE		78	78	52.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39		13.00
RHITHROGENA SP				
LARVAE	137	78		71.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	468	1053	234	585.00

Appendix H-10-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHURDTERPES SP				
LARVAE	156	117	39	104.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE		137	59	65.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	858	3803	917	1859.33
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20		20	13.33
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE	20			6.67
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE		20		6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	39	20		19.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	215	780	468	487.67
HYDROPSYCHE SP				
LARVAE	20	137	20	59.00

Appendix H-10-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20	78	39	45.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE	20			6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20	20	20	20.00
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		39	59	32.67
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		59	20	26.33
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		20		6.67
MICROTENDIPES SP				
LARVAE	39	20	98	52.33
PHAENOPSECTRA SP				
LARVAE		20		6.67

Appendix H-10-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		39	20	19.67
CLADOTANYTARSUS SP				
LARVAE			20	6.67
RHEOTANYTARSUS SP				
LARVAE		195	98	97.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

Appendix H-10-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		78	59	45.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS CLAPAREDEIANUS				
TYPICAL		20		6.67
LIMNODRILUS HOFFMEISTERI				
TYPICAL	137	156	293	195.33
TUBIFEX TUBIFEX	20		39	19.67
IMMATURES WITH CAP. CHAETAE SP	39	39	59	45.67
IMMATURES W/O CAP. CHAETAE SP	195	195	156	182.00
NAIDIDAE				
NAIS SP			39	13.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	39	39	39	39.00
INSECTA				
EPHEMEROPTERA				
BAETICAE				
UNIDENTIFIED				
LARVAE	741	1307	293	780.33

Appendix H-10-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
DACTYLOBAETIS SP				
LARVAE	20	156	59	78.33
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39	117	20	58.67
RHITHROGENA SP				
LARVAE	20	98	39	52.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	195	1346	39	526.67
CHORDTERPES SP				
LARVAE	176	1034	293	501.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	59	39	59	52.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	2165	2847	2847	2619.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE		20		6.67

Appendix H-10-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	624	1482	624	910.00
HYDROPSYCHE SP				
LARVAE		137	20	52.33
CHEUMATOPSYCHE SP				
LARVAE			20	6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	117	20	65.33
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	20	20	20.00

Appendix H-10-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		39	59	32.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE	59		39	32.67
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		20		6.67
MESOSMITTIA SP				
LARVAE	20			6.67
THIENEMANNIELLA SP				
LARVAE	20			6.67
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		59	20	26.33
MICROTENDIPES SP				
LARVAE	59	156	234	149.67
PHAENOPSECTRA SP				
LARVAE	20	59	39	39.33
POLYPEDILUM SP				
LARVAE	78	117	390	195.00

2.4.5.1131

Appendix H-10-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
STICTOCHIRONOMUS SP				
LARVAE		20	59	26.33
CLADOTANYTARSUS SP				
LARVAE	20	117	59	65.33
RHEOTANYTARSUS SP				
LARVAE	273	488	371	377.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	39			13.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20		39	19.67

2.4.5.1132

Appendix H-10-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	215	215	39	156.33
TUBIFEX TUBIFEX	20			6.67
IMMATURES WITH CAP. CHAETAE SP	20			6.67
IMMATURES W/O CAP. CHAETAE SP	293	39	117	149.67
NAIDIDAE				
NAIS BEHNINGI			176	58.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20		39	19.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1365	780	2028	1391.00
DACTYLOBAETIS SP				
LARVAE	39	156	273	156.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	39	39	20	32.67

Appendix H-10-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	195	78	39	104.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	390		156	182.00
CHORDTERPES SP				
LARVAE	390	20	293	234.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20		20	13.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	780	390	995	721.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
HYDROPSYCHE SP				
LARVAE	20			6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20	39	19.67

Appendix H-10-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
MAYATRICHIA SP				
PUPAE			20	6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20			6.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE		20		6.67
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE		20		6.67
MICROTENDIPES SP				
LARVAE	20			6.67
PHAENOPSECTRA SP				
LARVAE	20		20	13.33

2.4.5.1135

Appendix H-10 2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	78	39		39.00
CLADOTANYTARSUS SP				
LARVAE			20	6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	78	20		32.67

Appendix H-10-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		39		13.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		59	722	260.33
TUBIFEX TUBIFEX			20	6.67
IMMATURES WITH CAP. CHAETAE SP			98	32.67
IMMATURES W/O CAP. CHAETAE SP	117	59	858	344.67
NAIDIDAE				
NAIS SP	39			13.00
NAIS BEHNINGI	20		39	19.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	59			19.67

Appendix H-10-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETICAE				
UNIDENTIFIED				
LARVAE	605	566	761	644.00
DACTYLOBAETIS SP				
LARVAE	39	78		39.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE			39	13.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		137		45.67
CHEROTERPES SP				
LARVAE	137	332	98	189.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	39		19.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	1229	1872	2379	1826.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HEMIPTERA				
CORIXIDAE				
UNIDENTIFIED				
LARVAE		20		6.67

2.4.5.1138

Appendix H-10-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	59	39	78	58.67
HYDROPSYCHE SP				
LARVAE	20	20	20	20.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39		39	26.00
MAYATRICHIA SP				
PUPAE	20	39		19.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20		78	32.67
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20	20		13.33
DIAMESINAE				
MONODIAMESA SP				
LARVAE			39	13.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	78		20	32.67
PHAENOPSECTRA SP				
LARVAE	20		20	13.33

2.4.5.1139

Appendix H-10-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE		20		6.67
CLADOTANYTARSUS SP				
LARVAE		20		6.67
RHEOTANYTARSUS SP				
LARVAE	20		20	13.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

APPENDIX H-10-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	20			6.67
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	137	195	332	221.33
TUBIFEX TUBIFEX		20	78	32.67
IMMATURES WITH CAP. CHAETAE SP	59	215	371	215.00
IMMATURES W/O CAP. CHAETAE SP	371	527	956	618.00
NAIDIDAE				
NAIS SP		39		13.00
NAIS BEHNINGI			20	6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20		20	13.33

2.4.5.1141

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1229	1131	1248	1202.67
BAETIS SP				
LARVAE	39			13.00
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	1190	332	527	683.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	1482	1034	1034	1183.33
CHORDTERPES SP				
LARVAE	59	39	59	52.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	117	59	117	97.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	936	858	1092	962.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20	59	59	46.00
SYSTELLOGNATHA				
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE	273	20	39	110.67

APPENDIX H-10-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	137	293	176	202.00
HYDROPSYCHE SP				
LARVAE	98	137	39	91.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20	78	98	65.33
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE	20	20		13.33
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	39	20	78	45.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		20	39	19.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		20	20	13.33
ORTHOCLADIINAE				
CARDIOCLADIUS SP				
LARVAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20	59	20	33.00
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE			20	6.67
MICROTENDIPES SP				
LARVAE		20	59	26.33
PHAENOPSECTRA SP				
LARVAE	20	20	98	46.00
POLYPEDILUM SP				
LARVAE		78		26.00
CLADOTANYTARSUS SP				
LARVAE		20		6.67
RHEOTANYTARSUS SP				
LARVAE		20		6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	78	215	156	149.67
SIMULIUM SP				
PUPAE	20	20		13.33

APPENDIX H-10-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33

SITE = 30 REPS= 3

APPENDIX H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20			6.67
TUBIFEX TUBIFEX			20	6.67
IMMATURES W/O CAP. CHAETAE SP	20	39		19.67
NAIDIDAE				
NAIS SP	59	137		65.33
NAIS BEHNINGI	20			6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		39		13.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	371	624	273	422.67
DACTYLOBAETIS SP				
LARVAE		20	137	52.33

APPENDIX H-10-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	59			19.67
RHITHROGENA SP				
LARVAE	78	20		32.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	371		20	130.33
CHORDTERPES SP				
LARVAE	176			58.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	39	59		32.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	1151	819	663	877.67
COLEOPTERA				
ELMIDAE				
MICRODYLLOEPUS SP				
LARVAE	20			6.67
TRICHOPTERA				
UNIDENTIFIED				
LARVAE		20		6.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	1190	644	59	631.00

APPENDIX H-10-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE	78	20		32.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	78	98		58.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20	39		19.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	78	78		52.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		39		13.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	39			13.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
MONODIAMESA SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	117	78		65.00
CHIRONOMINAE				
HARNISCHIA SP				
LARVAE		20		6.67
MICROTENDIPES SP				
LARVAE			20	6.67
PHAENOPSECTRA SP				
LARVAE	78	78	20	58.67
POLYPEDILUM SP				
LARVAE	39	20		19.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE	39		20	19.67
CLADOTANYTARSUS SP				
LARVAE	20	117		45.67
RHEOTANYTARSUS SP				
LARVAE	59	39		32.67

APPENDIX H-10-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	117	39		52.00
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20			6.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20			6.67
IMMATURES WITH CAP. CHAETAE SP	20	20	20	20.00
IMMATURES W/O CAP. CHAETAE SP	78	59	98	78.33
NAIDIDAE				
NAIS SP		137	59	65.33
NAIS BEHNINGI	449	332	39	273.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	59		26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1911	956	858	1241.67
DACTYLOBAETIS SP				
LARVAE	78	98	39	71.67

APPENDIX H-10-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39	39	26.00
RHITHROGENA SP				
LARVAE	156	215	98	156.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	527	1755	98	793.33
CHOROTERPES SP				
LARVAE	585	332	351	422.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	156	234	176	188.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	4017	3705	4017	3913.00
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	39	20		19.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	546	449	449	481.33
HYDROPSYCHE SP				
LARVAE	78	20	20	39.33

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	78	273	78	143.00
AGRAYLEA SP				
PUPAE		20		6.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE		20		6.67
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20			6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	39		19.67
TANYPODINAE				
UNIDENTIFIED				
LARVAE	20			6.67
THIENEMANNIMYIA GROUP SP				
LARVAE	78	39	20	45.67

2.4.5.1154

SITE = 31 REPS= 3

APPENDIX H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
MONODIAMESA SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS TRIFASCIA				
LARVAE		20	20	13.33
EUKIEFFERIELLA SP				
LARVAE	59	20	59	46.00
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	20	20	20	20.00
MICROTENDIPES SP				
LARVAE	98	39	98	78.33
PHAENOPSECTRA SP				
LARVAE	78	20	20	39.33
POLYPEDILUM SP				
LARVAE	78	98	20	65.33
CLADOTANYTARSUS SP				
LARVAE	20	20	20	20.00
RHEOTANYTARSUS SP				
LARVAE	156	20	39	71.67

APPENDIX H-10-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	59	59	20	46.00
SIMULIUM SP				
PUPAE		20		6.67
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		20		6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	839	98	39	325.33
IMMATURES WITH CAP. CHAETAE SP	39	98	20	52.33
IMMATURES W/O CAP. CHAETAE SP	1521	429	176	708.67
NAIDIDAE				
NAIS SP	20	273		97.67
NAIS BEHNINGI	20		117	45.67
ARTHROPODA				
ARACHNOIDEA				
ACARI			117	39.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	839	819	566	741.33
DACTYLOBAETIS SP				
LARVAE	390	273	156	273.00

APPENDIX H-10-2 (Continued)

SITE = 32 REPS= 3

TAXCN	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20	20	117	52.33
RHITHROGENA SP				
LARVAE	39	137	137	104.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	98	98	137	111.00
CHOROTERPES SP				
LARVAE	527	488	390	468.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	59	59	117	78.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	2438	3393	2340	2723.67
POLYMITARCIDAE				
EPHORON SP				
LARVAE	20	20		13.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE			20	6.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20			6.67

APPENDIX H-10-2 (Continued)

SITE = 32 REPS=

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	137	215	332	228.00
HYDROPSYCHE SP				
LARVAE	20	20	39	26.33
CHEUMATOPSYCHE SP				
LARVAE		20		6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	78	39	78	65.00
MAYATRICHIA SP				
PUPAE	20	20		13.33
LEPTOCERIDAE				
OECETIS SP				
LARVAE		39		13.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	59	39	52.33
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20		59	26.33

2.4.5.1159

APPENDIX H-10-2 (Continued)

SITE = 32 REPS= 3

TAXA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
DIAMESINAE				
MONODIAMESA SP				
LARVAE	78	39	39	52.00
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		39		13.00
NANOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		59		19.67
MICROTENDIPES SP				
LARVAE	254	215	98	189.00
PHAENOPSECTRA SP				
LARVAE	59	20		26.33
POLYPEDILUM SP				
LARVAE	78	117	39	78.00
STICTOCHIRONOMUS SP				
LARVAE	20			6.67
CLADOTANYTARSUS SP				
LARVAE	20			6.67

APPENDIX H-10-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	254	117	98	156.33
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33

APPENDIX H-10-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	20		13.33
IMMATURES W/O CAP. CHAETAE SP	59	78		45.67
NAIDIDAE				
NAIS BEHNINGI	59			19.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	468	215	488	390.33
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	195	1248	117	520.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	137	78		71.67
CHOROTERPES SP				
LARVAE	78	39	59	58.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20		20	13.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	390	254	137	260.33

APPENDIX H-10-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
POLYMITARCIDAE				
EPHORON SP				
LARVAE	20			6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE		98		32.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20			6.67
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE		20		6.67
HEMIPTERA				
VELIIDAE				
RHAGOVELIA SP				
LARVAE		20		6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE		39		13.00
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	117	195		104.00
HYDROPSYCHE SP				
LARVAE		20		6.67
HYDROPTILIDAE				
UNIDENTIFIED				
PUPAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE		39		13.00
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIINAE SP. 1				
LARVAE		20	20	13.33
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	20	20		13.33
POLYPEDILUM TRIPCDURA GRP.				
LARVAE		20		6.67
CLADOTANYTARSUS SP				
LARVAE	59	20		26.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	39	78	59	58.67
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE		20		6.67
ANTHOMYIIDAE				
LIMNOPHORA SP				
LARVAE	390	273	78	247.00

APPENDIX H-10-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20			6.67
IMMATURES WITH CAP. CHAETAE SP			20	6.67
IMMATURES W/O CAP. CHAETAE SP		20	20	13.33
NAIDIDAE				
NAIS BEHNINGI			20	6.67
ARTHROPODA				
ARACHNOIDEA				
ACARI		20	20	13.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	663	605	1151	806.33
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	332	1053	1482	955.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	371	488	1248	702.33
CHOROTERPES SP				
LARVAE	20		39	19.67

2.4.5.1165

APPENDIX H-10-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE			78	26.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	741	488	546	591.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39		78	39.00
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		39		13.00
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE			20	6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE		20	20	13.33
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	234	137	293	221.33
HYDROPSYCHE SP				
LARVAE	39	78	78	65.00
HYDROPSYCHE SCALARIS				
PUPAE			20	6.67

APPENDIX H-10-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
MAYATRICHIA SP				
PUPAE		20		6.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE			20	6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20		20	13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98	98	176	124.00
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20		20	13.33
CHIRONOMINAE				
PHAENOPSECTRA SP				
LARVAE	39	20		19.67
POLYPEDILUM SP				
LARVAE	39			13.00
CLADOTANYTARSUS SP				
LARVAE	20	20	20	20.00

2.4.5.1167

APPENDIX H-10-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE		20		6.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	98	117	156	123.67
SIMULIUM SP				
PUPAE		20	20	13.33
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE		20		6.67

APPENDIX H-10-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39			13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
NAIDIDAE				
NAIS SP				
---- --			20	6.67
NAIS BEHNINGI				
---- --------	20	59	98	59.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		20	20	13.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	429	1034	819	760.67
DACTYLOBAETIS SP				
---------- --				
LARVAE			20	6.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
--------- --				
LARVAE	20			6.67
RHITHROGENA SP				
---------- --				
LARVAE	117	293	156	188.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
--------- ---------				
LARVAE	254	137	293	228.00

APPENDIX H-10-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	156	98		84.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	59	20	137	72.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	644	1190	917	917.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE		20	59	26.33
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20	20		13.33
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE		59	39	32.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	254	507	1190	650.33
HYDROPSYCHE SP				
LARVAE	59	59	117	78.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20	20	78	39.33

APPENDIX H-10-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
LEPTOCERIDAE				
CECETIS SP				
LARVAE	20		39	19.67
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE			20	6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE		20	59	26.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	234	234	215	227.67
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		39	20	19.67
CHIRONOMINAE				
PHAENOPSECTRA SP				
LARVAE	20	20	78	39.33
POLYPEDILUM SP				
LARVAE	20		20	13.33
CLADOTANYTARSUS SP				
LARVAE	39	78	59	58.67

2.4.5.1171

SITE = 35 REPS= 3

APPENDIX H-10-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE		20	20	13.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20	39	215	91.33
SIMULIUM SP				
PUPAE		39		13.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

APPENDIX H-11-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-11-1

MACROINVERTEBRATE TAXA OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.

PLATYHELMINTHES
TURBELLARIA
TRICLADIDA

UNIDENTIFIED

NEMATODA

MOLLUSCA
GASTROPODA
BASOMMATOPHORA

LYMNAEIDAE

LYMNAEA
SP

ANNELIDA
HIRUDINEA
RHYNCHOBDELLIDA

GLOSSIPHONIIDAE

HELOBDELLA
STAGNALIS

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

HAPLOTAXIDAE

HAPLOTAXIS
SP

2.4.5.1173

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

ENCHYTRAEIDAE

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

UNIDENTIFIED
SP. 1

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

LIMNODRILUS
HOFFMEISTERI
TYPICAL

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

LIMNODRILUS
UDEKEMIANUS

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA

TUBIFICIDAE

RHYACODRILINAE
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
TUBIFICIDAE
TUBIFEX
TUBIFEX

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
TUBIFICIDAE
IMMATURES WITH CAP. CHAETAE
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
TUBIFICIDAE
IMMATURES W/O CAP. CHAETAE
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
NAIDIDAE
CHAETOGASTER
DIASTROPHUS

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
NAIDIDAE
NAIS
SP

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
NAIDIDAE
NAIS
BEHNINGI

ANNELIDA
OLIGOCHAETA
HAPLOTAXIDA
NAIDIDAE
PRISTINA
SP

ARTHROPODA
ARACHNOIDEA
ACARI

ARTHROPODA
CRUSTACEA
AMPHIPODA
TALITRIDAE
HYALELLA
AZTECA

ARTHROPODA
INSECTA
COLLEMBOLA

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
BAETIS
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
CALLIBAETIS
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
BAETIDAE
DACTYLOBAETIS
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
HEPTAGENIIDAE
HEPTAGENIA
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
HEPTAGENIIDAE
RHITHROGENA
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
LEPTOPHLEBIIDAE
TRAVERELLA
ALBERTANA
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
LEPTOPHLEBIIDAE
CHOROTERPES
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
EPHEMERELLIDAE
EPHEMERELLA
SP
LARVAE

ARTHROPODA
INSECTA
EPHEMEROPTERA
TRICORYTHIDAE
TRICORYTHODES
SP
LARVAE

```
ARTHROPODA
   INSECTA
      EPHEMEROPTERA

            CAENIDAE

                  CAENIS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      ODONATA
         ZYGOPTERA
            COENAGRIONIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      ODONATA
         ANISOPTERA
            GOMPHIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA



                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      PLECOPTERA
         EUHOLOGNATHA
            CAPNIIDAE

                  UNIDENTIFIED

                        LARVAE
```

ARTHROPODA
INSECTA
PLECOPTERA
SYSTELLOGNATHA
PERLODIDAE

ISOGENUS
SP
LARVAE

ARTHROPODA
INSECTA
PLECOPTERA
SYSTELLOGNATHA
PERLIDAE

CLAASSENIA
SABULOSA
LARVAE

ARTHROPODA
INSECTA
HEMIPTERA

CORIXIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
HEMIPTERA

CORIXIDAE

UNIDENTIFIED

ADULTS

ARTHROPODA
INSECTA
COLEOPTERA

DYTISCIDAE

UNIDENTIFIED

LARVAE

```
ARTHROPODA
   INSECTA
      COLEOPTERA

            DYTISCIDAE

                  DERONECTES
                     SP
                        ADULTS

ARTHROPODA
   INSECTA
      COLEOPTERA

            HYDROPHILIDAE

                  UNIDENTIFIED

                        LARVAE

ARTHROPODA
   INSECTA
      COLEOPTERA

            ELMIDAE

                  UNIDENTIFIED

                        ADULTS

ARTHROPODA
   INSECTA
      COLEOPTERA

            ELMIDAE

                  ZAITZEVIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      TRICHOPTERA


                  UNIDENTIFIED

                        LARVAE
```

ARTHROPODA
INSECTA
TRICHOPTERA
GLOSSOSOMATIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
GLOSSOSOMATIDAE
UNIDENTIFIED
PUPAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPSYCHIDAE
HYDROPSYCHE
SP
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
HYDROPTILIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
LIMNEPHILIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
LEPTOCERIDAE
OECETIS
SP
LARVAE

ARTHROPODA
INSECTA
TRICHOPTERA
BRACHYCENTRIDAE
BRACHYCENTRUS
SP
LARVAE

ARTHROPODA
INSECTA
LEPIDOPTERA
PYRALIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
ORMOSIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
PEDICIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
LIMNOPHILA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
TIPULIDAE
HOLORUSIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
PSYCHODIDAE
PERICOMA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
DIXIDAE
DIXA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CERATOPOGONIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CERATOPOGONIDAE
UNIDENTIFIED
PUPAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
UNIDENTIFIED
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
UNIDENTIFIED
PUPAE

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  LABRUNDINIA
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  PSECTROTANYPUS
                     (APSECTROTANYPUS)
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               TANYPODINAE
                  THIENEMANNIMYIA GROUP
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  DIAMESINAE
                     SP. 1
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               DIAMESINAE
                  DIAMESA
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
DIAMESINAE
MONODIAMESA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
DIAMESINAE
ODONTOMESA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
DIAMESINAE
PRODIAMESA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
DIAMESINAE
PSEUDODIAMESA
PERTINAX
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
UNIDENTIFIED

LARVAE

REPRESENTS

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
CORYNONEURA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
CRICOTOPUS
CRICOTOPUS
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
CRICOTOPUS
CRICOTOPUS BICINCTUS
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
CRICOTOPUS
ISOCLADIUS
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
CRICOTOPUS
ISOCLADIUS SYLVESTRIS GRP.
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
DIPLOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
EUKIEFFERIELLA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
NANOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
ORTHOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
ORTHOCLADIUS
EUORTHOCLADIUS
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
ORTHOCLADIINAE
PARACLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
ORTHOCLADIINAE
PARAKIEFFERIELLA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
ORTHOCLADIINAE
PARAPHAENOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
ORTHOCLADIINAE
PARAMETRIOCNEMUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA
CHIRONOMIDAE
ORTHOCLADIINAE
PARORTHOCLADIUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
PSEUDOSMITTIA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
ORTHOCLADIINAE
THIENEMANNIELLA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
CHIRONOMINI
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
CHIRONUMUS
SP. GROUP 1
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
CRYPTOCHIRONOMUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
MICROTENDIPES
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PARACLADOPELMA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PARATENDIPES
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PHAENOPSECTRA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
POLYPEDILUM
SP
LARVAE

```
ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  POLYPEDILUM
                     FALLAX GROUP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  POLYPEDILUM
                     TRIPODURA GRP.
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  PSEUDOCHIRONOMUS
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  TANYTARSINI
                     SP
                        LARVAE

ARTHROPODA
   INSECTA
      DIPTERA

            CHIRONOMIDAE
               CHIRONOMINAE
                  TANYTARSUS
                     SP
                        LARVAE
```

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
CLADOTANYTARSUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
MICROPSECTRA
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
PARATANYTARSUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

CHIRONOMIDAE
CHIRONOMINAE
RHEOTANYTARSUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

SIMULIIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
DIPTERA

SIMULIIDAE

SIMULIUM
SP
PUPAE

ARTHROPODA
INSECTA
DIPTERA

STRATIOMYIDAE

EUPARYPHUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

TABANIDAE

TABANUS
SP
LARVAE

ARTHROPODA
INSECTA
DIPTERA

RHAGIONIDAE

ATHERIX
VARIEGATA
LARVAE

ARTHROPODA
INSECTA
DIPTERA

EMPIDIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
DIPTERA

SYRPHIDAE

UNIDENTIFIED

LARVAE

ARTHROPODA
INSECTA
DIPTERA

ANTHOMYIIDAE

LIMNOPHORA
AEQUIFRONS
LARVAE

ARTHROPODA
INSECTA
DIPTERA

ANTHOMYIIDAE

LIMNOPHORA
DISCRETA
LARVAE

ARTHROPODA
INSECTA
DIPTERA

MUSCIDAE

UNIDENTIFIED

LARVAE

APPENDIX H-11-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-11-2

DENSITIES OF BENTHOS (MACROINVERTEBRATES) OBSERVED DURING RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976.[1,2]

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED	290	344	724	452.67
NEMATODA		18	18	12.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	18	36	326	126.67
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18	18	12.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			18	6.00
IMMATURES WITH CAP. CHAETAE SP		18		6.00
IMMATURES W/O CAP. CHAETAE SP	91	742	688	507.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	36		109	48.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	308	235	1466	669.67

[1]Stations 6, 10 - 12, and 15 - 19 were dry at the time of sampling.

[2]Collection method: Stations 1 - 22 + Elliptical Surber; Stations 23 - 35 = Tall Surber

Appendix H-11-2 (Continued)

SITE = 01 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
EUHOLOGNATHA				
CAPNIIDAE				
UNIDENTIFIED				
LARVAE	235	308	127	223.33
TRICHOPTERA				
LIMNEPHILIDAE				
UNIDENTIFIED				
LARVAE	36	36	127	66.33
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE	18	72	72	54.00
HOLORUSIA SP				
LARVAE	54	91	72	72.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE			18	6.00
DIAMESINAE				
DIAMESA SP				
LARVAE	145	163	109	139.00
PRODIAMESA SP				
LARVAE		36		12.00
PSEUDODIAMESA PERTINAX				
LARVAE	18			6.00
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE		18	36	18.00

Appendix H-11-2 (Continued)

SITE = 01 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	253	344	145	247.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	109	145	127	127.00
PARAPHAENOCLADIUS SP				
LARVAE	36	18	54	36.00
THIENEMANNIELLA SP				
LARVAE		18		6.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	54	54	54	54.00
SIMULIIDAE				
SIMULIUM SP				
PUPAE		18		6.00
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE			36	12.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	109	109	109	109.00

2.4.5.1199

Appendix H-11-2 (Continued)

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18	18		12.00
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP		18		6.00
NAIDIDAE				
CHAETOGASTER DIASTROPHUS	36	18		18.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	996	1358	290	881.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	434	1032	597	687.67
EUHOLOGNATHA				
CAPNIIDAE				
UNIDENTIFIED				
LARVAE	54	36		30.00
TRICHOPTERA				
LIMNEPHILIDAE				
UNIDENTIFIED				
LARVAE	290	109	145	181.33
DIPTERA				
TIPULIDAE				
PEDICIA SP				
LARVAE	18			6.00
HOLORUSIA SP				
LARVAE	235	163	109	169.00

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
PSYCHODIDAE				
PERICOMA SP				
LARVAE	18			6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	18	36	24.00
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE	36	72		36.00
DIAMESINAE				
DIAMESINAE SP. 1				
LARVAE		18		6.00
DIAMESA SP				
LARVAE	18			6.00
ODONTOMESA SP				
LARVAE		54	54	36.00
PSEUDODIAMESA PERTINAX				
LARVAE			18	6.00
ORTHOCLADIINAE				
DIPLOCLADIUS SP				
LARVAE		36		12.00
EUKIEFFERIELLA SP				
LARVAE	181	18	36	78.33

Appendix H-11-2 (Continued)

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	36			12.00
PARACLADIUS SP				
LARVAE		36	18	18.00
PARAKIEFFERIELLA SP				
LARVAE			18	6.00
PARAPHAENOCLADIUS SP				
LARVAE	235	91	127	151.00
THIENEMANNIELLA SP				
LARVAE	18			6.00
CHIRONOMINAE				
CHIRONOMUS SP. GROUP 1				
LARVAE			36	12.00
PHAENOPSECTRA SP				
LARVAE	36	344	199	193.00
TANYTARSINI SP				
LARVAE		18		6.00
MICROPSECTRA SP				
LARVAE	163	543	579	428.33

2.4.5.1202

Appendix H-11-2 (Continued)

SITE = 02 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SYRPHIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	91	91	36	72.67

Appendix H-11-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLICA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS				
---------- ---------		36		12.00
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		18		6.00
NAIDIDAE				
NAIS SP				
---- --	688	163	72	307.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	163	91	91	115.00
BAETIS SP				
------ --				
LARVAE			18	6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				

LARVAE	18	18		12.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	36	18		18.00
TRICHOPTERA				
LIMNEPHILIDAE				
UNIDENTIFIED				

LARVAE	18			6.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
--------- --				
LARVAE	18			.00

Appendix H-11-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	615	1394	253	754.00
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE	72		91	54.33
DIAMESINAE				
DIAMESA SP				
LARVAE			54	18.00
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE	72			24.00
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE			54	18.00
DIPLOCLADIUS SP				
LARVAE	127	127	54	102.67
EUKIEFFERIELLA SP				
LARVAE	525	670	525	573.33
ORTHOCLADIUS SP				
LARVAE	4036	3602	2588	3408.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			54	18.00

Appendix H-11-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAPHAENOCLADIUS SP				
LARVAE	2606	3005	1683	2431.33
PARORTHOCLADIUS SP				
LARVAE			54	18.00
THIENEMANNIELLA SP				
LARVAE			145	48.33
CHIRONOMINAE				
PHAENOPSECTRA SP				
LARVAE			54	18.00
POLYPEDILUM FALLAX GROUP				
LARVAE			54	18.00
MICROPSECTRA SP				
LARVAE		127		42.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	181	145	471	265.67
SIMULIUM SP				
PUPAE		18	54	24.00
SYRPHIDAE				
UNIDENTIFIED				
LARVAE			18	6.00

Appendix H-11-2 (Continued)

SITE = 03 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		18		6.00
MUSCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

Appendix H-11-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54		18	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	72		36	36.00
NAIDIDAE				
NAIS SP				
---- --	54	18		24.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	1014	471	941	808.67
BAETIS SP				
------ --				
LARVAE	36		18	18.00
PLECOPTERA				
UNIDENTIFIED				

LARVAE	181	109	290	193.33
EUHOLOGNATHA				
CAPNIIDAE				
UNIDENTIFIED				

LARVAE	18			6.00
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				

LARVAE		18		6.00
DIPTERA				
TIPULIDAE				
PEDICIA SP				
------- --				
LARVAE	18			6.00

2.4.5.1208

Appendix H-11-2 (Continued)

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE		18	36	18.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	109		18	42.33
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE	18		18	12.00
DIAMESINAE				
DIAMESA SP				
LARVAE		18		6.00
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	181	72	127	126.67
ORTHOCLADIUS SP				
LARVAE	217	127	72	138.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			36	12.00
PARAPHAENOCLADIUS SP				
LARVAE	434	326	145	301.67
THIENEMANNIELLA SP				
LARVAE	54			18.00

2.4.5.1209

SITE = 04 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE	18			6.00
MICROTENDIPES SP				
LARVAE			36	12.00
PARATENDIPES SP				
LARVAE	36		18	18.00
POLYPEDILUM FALLAX GROUP				
LARVAE	18	18		12.00
MICROPSECTRA SP				
LARVAE	72			24.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	1086	778	1647	1170.33
SIMULIUM SP				
PUPAE	36	54	109	66.33
TABANIDAE				
TABANUS SP				
LARVAE			18	6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	54	54	145	84.33

Appendix H-11-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	5864	27331	2082	11759.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS	1557	2353	290	1400.00
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE			18	6.00
TUBIFICIDAE				
RHYACODRILINAE SP	91	127	91	103.00
IMMATURES WITH CAP. CHAETAE SP	1068	1303	1502	1291.00
IMMATURES W/O CAP. CHAETAE SP	416	815	869	700.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	72	91	54	72.33
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA	1484	941	199	874.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	308	253	18	193.00

2.4.5.1211

Appendix H-11-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
CALLIBAETIS SP				
LARVAE	127	18		48.33
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS		18		6.00
TRICHOPTERA				
UNIDENTIFIED				
LARVAE		380	72	150.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00
HYDROPSYCHE SP				
LARVAE	18			6.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	181	36		72.33
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
LARVAE	18			6.00
HOLORUSIA SP				
LARVAE	36			12.00

Appendix H-11-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
PSYCHODIDAE				
PERICOMA SP				
LARVAE		18	18	12.00
DIXIDAE				
DIXA SP				
LARVAE		18		6.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	815	4091	362	1756.00
UNIDENTIFIED				
PUPAE		18		6.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	109		42.33
DIAMESINAE				
ODONTOMESA SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		543		181.00
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE	253	543	91	295.67
EUKIEFFERIELLA SP				
LARVAE	18	72		30.00

2.4.5.1213

Appendix H-11-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	380	1448	163	663.67
PARAKIEFFERIELLA SP				
LARVAE		145		48.33
PARAPHAENOCLADIUS SP				
LARVAE		109		36.33
PSEUDOSMITTIA SP				
LARVAE		36		12.00
THIENEMANNIELLA SP				
LARVAE	145	380	109	211.33
CHIRONOMINAE				
CHIRONOMINI SP				
LARVAE		36		12.00
PARATENDIPES SP				
LARVAE	18	36		18.00
TANYTARSUS SP				
LARVAE	36	344	18	132.67
MICROPSECTRA SP				
LARVAE	36	272	54	120.67

Appendix H-11-2 (Continued)

SITE = 05 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
PARATANYTARSUS SP				
LARVAE	18			6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	2317	4634	344	2431.67
SIMULIUM SP				
PUPAE	525	796	109	476.67
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		36		12.00

Appendix H-11-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA			18	6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	199	941	1303	814.33
NAIDIDAE				
NAIS SP				
---- --		91		30.33
ARTHROPODA				
INSECTA				
COLLEMBOLA	18			6.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	54	109	380	181.00
BAETIS SP				
------ --				
LARVAE	18			6.00
DIPTERA				
TIPULIDAE				
ORMOSIA SP				
------- --				
LARVAE			18	6.00
CERATOPOGONIDAE				
UNIDENTIFIED				

LARVAE		91		30.33
CHIRONOMIDAE				
UNIDENTIFIED				

PUPAE	145	235	163	181.00

2.4.5.1216

Appendix H-11-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE	18			6.00
THIENEMANNIMYIA GROUP SP				
LARVAE	18	18		12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			18	6.00
CORYNONEURA SP				
LARVAE	18		18	12.00
EUKIEFFERIELLA SP				
LARVAE	18	91	253	120.67
ORTHOCLADIUS SP				
LARVAE	109	109	109	109.00
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			36	12.00
PARAPHAENOCLADIUS SP				
LARVAE	163	416	290	289.67
PSEUDOSMITTIA SP				
LARVAE		18		6.00

Appendix H-11-2 (Continued)

SITE = 07 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	18	18		12.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	18	109	1104	410.33
SIMULIUM SP				
PUPAE		18	72	30.00

Appendix H-11-2 (Continued)

SITE = 08 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
PLATYHELMINTHES				
TURBELLARIA				
TRICLADIDA				
UNIDENTIFIED				
----------		18		6.00
NEMATODA	36		36	24.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	72	36		36.00
NAIDIDAE				
NAIS SP				
---- --	109	217	235	187.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		18		6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	181	290	326	265.67
BAETIS SP				
------ --				
LARVAE	18	18	91	42.33
PLECOPTERA				
UNIDENTIFIED				

LARVAE	977	2932	4091	2666.67
EUHOLOGNATHA				
CAPNIIDAE				
UNIDENTIFIED				

LARVAE	1412	851	1665	1309.33

2.4.5.1219

Appendix H-11-2 (Continued)

SITE = 08 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
COLEOPTERA				
DYTISCIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	54	18	72	48.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			72	24.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	54	18	36	36.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			91	30.33
DIAMESINAE				
DIAMESA SP				
LARVAE	36			12.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18		272	96.67
CORYNONEURA SP				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
LARVAE	525	941	1032	832.67

2.4.5.1220

Appendix H-11-2 (Continued)

SITE = 08 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	652	1231	272	718.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	525	833	1882	1080.00
PARAPHAENOCLADIUS SP				
LARVAE	253	181	543	325.67
PARAMETRIOCNEMUS SP				
LARVAE	54	36	217	102.33
THIENEMANNIELLA SP				
LARVAE	127	362	579	356.00
CHIRONOMINAE				
MICROPSECTRA SP				
LARVAE	36	72	91	66.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	471	597	507	525.00
SIMULIUM SP				
PUPAE			36	12.00
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE		18		6.00

2.4.5.1221

Appendix H-11-2 (Continued)

SITE = 08 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	127	109	127	121.00
LIMNOPHORA DISCRETA				
LARVAE	18		54	24.00

2.4.5.1222

Appendix H-11-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18	36	36	30.00
ANNELIDA				
CLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		91		30.33
NAIDIDAE				
NAIS SP		36	36	24.00
---- --				
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE	36	362	471	289.67
BAETIS SP				
------ --			18	6.00
LARVAE				
PLECOPTERA				
UNIDENTIFIED				

LARVAE		217	290	169.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				

LARVAE		18	18	12.00
LIMNEPHILIDAE				
UNIDENTIFIED				

LARVAE	18		36	18.00
DIPTERA				
TIPULIDAE				
UNIDENTIFIED				

LARVAE	18			6.00

2.4.5.1223

Appendix H-11-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		36	54	30.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18	253	235	168.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE	18			6.00
EUKIEFFERIELLA SP				
LARVAE	54	290	344	229.33
ORTHOCLADIUS SP				
LARVAE	72	54	145	90.33
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE	18	18	18	18.00
PARAPHAENOCLADIUS SP				
LARVAE	36	615	905	518.67
PARAMETRIOCNEMUS SP				
LARVAE	18	54	18	30.00
THIENEMANNIELLA SP				
LARVAE			36	12.00

Appendix H-11-2 (Continued)

SITE = 09 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE		18		6.00
TANYTARSUS SP				
LARVAE	18		18	12.00
MICROPSECTRA SP				
LARVAE	18	18	18	18.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	670	1430	2027	1375.67
SIMULIUM SP				
PUPAE	54	272	253	193.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE		18	109	42.33

2.4.5.1225

Appendix H-11-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	91	36	18	48.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
HAPLOTAXIDAE				
HAPLOTAXIS SP		18		6.00
ENCHYTRAEIDAE			36	12.00
TUBIFICIDAE				
UNIDENTIFIED SP. 1	18			6.00
IMMATURES WITH CAP. CHAETAE SP	72	36	18	42.00
IMMATURES W/O CAP. CHAETAE SP	181	272	163	205.33
NAIDIDAE				
NAIS SP	1339	398	308	681.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	18			6.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	3747	2968	3385	3366.67

Appendix H-11-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
BAETIS SP				
LARVAE	72	72	91	78.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	634	308	272	404.67
COLEOPTERA				
DYTISCIDAE				
DERONECTES SP				
ADULTS			36	12.00
ELMIDAE				
UNIDENTIFIED				
ADULTS	18			6.00
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	36		18	18.00
DIPTERA				
TIPULIDAE				
HOLORUSIA SP				
LARVAE	18	36	72	42.00
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18	18		12.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	181	54	109	114.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	145	36	18	66.33

Appendix H-11-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE	54	18		24.00
EUKIEFFERIELLA SP				
LARVAE	615	145	253	337.67
ORTHOCLADIUS SP				
LARVAE	145	109	54	102.67
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			18	6.00
PARAPHAENOCLADIUS SP				
LARVAE	1647	851	760	1086.00
PARAMETRIOCNEMUS SP				
LARVAE	796	272	235	434.33
THIENEMANNIELLA SP				
LARVAE	561	217	109	295.67
CHIRONOMINAE				
PARACLADOPELMA SP				
LARVAE			18	6.00
PHAENOPSECTRA SP				
LARVAE		18		6.00

2.4.5.1228

Appendix H-11-2 (Continued)

SITE = 13 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	235	217	54	168.67
MICROPSECTRA SP				
LARVAE	54	18	36	36.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	253	54	489	265.33
SIMULIUM SP				
PUPAE			18	6.00
STRATIOMYIDAE				
EUPARYPHUS SP				
LARVAE		72		24.00
EMPIDIDAE				
UNIDENTIFIED				
LARVAE	109	18	18	48.33
ANTHOMYIIDAE				
LIMNOPHORA AEQUIFRONS				
LARVAE	217	272	253	247.33

2.4.5.1229

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	18			6.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS		72	72	48.00
IMMATURES WITH CAP. CHAETAE SP	235	127	127	163.00
IMMATURES W/O CAP. CHAETAE SP	778	561	489	609.33
NAIDIDAE				
NAIS SP	18			6.00
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETICAE				
UNIDENTIFIED				
LARVAE			36	12.00
CALLIBAETIS SP				
LARVAE	18			6.00
HEMIPTERA				
CORIXIDAE				
UNIDENTIFIED				
LARVAE	18			6.00
UNIDENTIFIED				
ADULTS			18	6.00

Appendix H-11-2 (Continued)

SITE = 14 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			18	6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	634	36	54	241.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		36	18	18.00
TANYPODINAE				
PSECTROTANYPUS (APSECTROTANYPUS)				
LARVAE	109	18	72	66.33
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE		18		6.00
TANYTARSUS SP				
LARVAE	489		109	199.33
MICROPSECTRA SP				
LARVAE	326	54	109	163.00

2.4.5.1231

Appendix H-11-2 (Continued)

SITE = 19 REPS= 2

TAXON	REP A	REP B	REP C	MEAN
MOLLUSCA				
GASTROPODA				
BASOMMATOPHORA				
LYMNAEIDAE				
LYMNAEA SP				
------- --		54	54	54.00
ANNELIDA				
HIRUDINEA				
RHYNCHOBDELLIDA				
GLOSSIPHONIIDAE				
HELOBDELLA STAGNALIS				
---------- ---------		833	1828	1330.50
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES WITH CAP. CHAETAE SP				
--------- ---- --- ------- --		1140	1122	1131.00
IMMATURES W/O CAP. CHAETAE SP				
--------- - - --- ------- --		344	127	235.50
ARTHROPODA				
ARACHNOIDEA				
ACARI		36	18	27.00
CRUSTACEA				
AMPHIPODA				
TALITRIDAE				
HYALELLA AZTECA				
-------- - ----		145	54	99.50
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				

LARVAE		4199	2462	3330.50
CAENIDAE				
CAENIS SP				
------ --				
LARVAE		398	163	280.50
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				

LARVAE		1611	1303	1457.00

2.4.5.1232

Appendix H-11-2 (Continued)

SITE = 19 REPS= 2

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE		453	543	498.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		1412	652	1032.00
TANYPODINAE				
LABRUNDINIA SP				
LARVAE		72		36.00
THIENEMANNIMYIA GROUP SP				
LARVAE		36	54	45.00
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE			109	54.50
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE		181	36	108.50
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE		36	36	36.00
EUKIEFFERIELLA SP				
LARVAE		36	36	36.00
ORTHOCLADIUS SP				
LARVAE		3439	2263	2851.00

Appendix H-11-2 (Continued)

SITE = 15 REPS= 2

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS EUORTHOCLADIUS				
LARVAE			36	18.00
PARAPHAENOCLADIUS SP				
LARVAE		72		36.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE			36	18.00
PSEUDOCHIRONOMUS SP				
LARVAE			54	27.00
TANYTARSINI SP				
LARVAE			36	18.00
MICROPSECTRA SP				
LARVAE		145	253	199.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		4471	1358	2914.50
SIMULIUM SP				
PUPAE		308	91	199.50

2.4.5.1234

Appendix H-11-2 (Continued)

SITE = 2C REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	199	54	72	108.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS	253			84.33
IMMATURES WITH CAP. CHAETAE SP	398	217		205.00
IMMATURES W/O CAP. CHAETAE SP	2697	724	54	1158.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	18	145		54.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	54		18	24.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE	18	54		24.00
COLEOPTERA				
HYDROPHILIDAE				
UNIDENTIFIED				
LARVAE	36			12.00
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE		109		36.33

2.4.5.1235

Appendix H-11-2 (Continued)

SITE = 2C REPS= 3

TAXCN	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		18		6.00
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		18	18	12.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	2100	1177	489	1255.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	36	145	54	78.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	18			6.00
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE			91	30.33
ORTHOCLADIUS SP				
LARVAE	905	1158	742	935.00
CHIRONOMINAE				
TANYTARSUS SP				
LARVAE	18			6.00
MICROPSECTRA SP				
LARVAE	18			6.00

2.4.5.1236

Appendix H-11-2 (Continued)

SITE = 20 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	2226	3946	3692	3288.00
SIMULIUM SP				
PUPAE	145	127	290	187.33

2.4.5.1237

SITE = 21 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54	36	18	36.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS	36		36	24.00
IMMATURES WITH CAP. CHAETAE SP	217	18	18	84.33
IMMATURES W/O CAP. CHAETAE SP	6082	923	416	2473.67
NAIDIDAE				
NAIS BEHNIAGI		217		72.33
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		72	72	48.00
CALLIBAETIS SP				
LARVAE	18			6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE			36	12.00
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	18			6.00

Appendix H-11-2 (Continued)

SITE = 21 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	18		18	12.00
CHIRONOMIDAE				
UNIDENTIFIED				
LARVAE		18		6.00
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	54		163	72.33
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE	18			6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	36	18	163	72.33

Appendix H-11-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	54	54		36.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	18			6.00
TUBIFICIDAE				
LIMNODRILUS UDEKEMIANUS	18			6.00
IMMATURES W/O CAP. CHAETAE SP	434	416	507	452.33
NAIDIDAE				
CHAETOGASTER DIASTROPHUS	18			6.00
NAIS SP	18	18		12.00
ARTHROPODA				
ARACHNOIDEA				
ACARI			18	6.00
INSECTA				
COLLEMBOLA	54	18		24.00
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE		18		6.00

2.4.5.1240

Appendix H-11-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE			18	6.00
CAENIDAE				
CAENIS SP				
LARVAE		18		6.00
ODONATA				
ZYGOPTERA				
COENAGRIONIDAE				
UNIDENTIFIED				
LARVAE	18	91	36	48.33
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE		18		6.00
DIPTERA				
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE	54	163	18	78.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	18	91	54	54.33
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE		235	344	193.00
CRICOTOPUS CRICOTOPUS BICINCTUS				
LARVAE		18		6.00
CRICOTOPUS ISOCLADIUS SYLVESTRIS GRP.				
LARVAE	18	91	18	42.33

Appendix H-11-2 (Continued)

SITE = 22 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
ORTHOCLADIUS SP				
LARVAE	507	253	851	537.00
CHIRONOMINAE				
PARATANYTARSUS SP				
LARVAE		18		6.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	416	561	362	446.33
SIMULIUM SP				
PUPAE		18	18	12.00

Appendix H-11-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	20	20	39	26.33
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		20		6.67
IMMATURES W/O CAP. CHAETAE SP	20		20	13.33
NAIDICAE				
NAIS SP	20	20		13.33
NAIS BEHNINGI	800	1190	137	709.00
PRISTINA SP	20	20		13.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	39	59	39	45.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1073	2535	663	1423.67
BAETIS SP				
LARVAE	39	20		19.67

2.4.5.1243

Appendix H-11-2 (Continued)

SITE = 23 REPS= 3

TAXCA	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
DACTYLOBAETIS SP				
LARVAE	39	59	20	39.33
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		59		19.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE			20	6.67
CHOROTERPES SP				
LARVAE			20	6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	156	215	137	169.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	488	488	176	384.00
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20			6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	117	78	20	71.67

Appendix H-11-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	975	1346	546	955.67
HYDROPSYCHE SP				
LARVAE	215	351	39	201.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	78	117	39	78.00
LEPTOCERIDAE				
OECETIS SP				
LARVAE	20	20	20	20.00
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE		39		13.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	156	59	98	104.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98	195	59	117.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20		20	13.33

2.4.5.1245

Appendix H-11-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	59	20		26.33
EUKIEFFERIELLA SP				
LARVAE	98	78	20	65.33
ORTHOCLADIUS SP				
LARVAE	98	20		39.33
PARAKIEFFERIELLA SP				
LARVAE	39	59		32.67
PARAPHAENOCLADIUS SP				
LARVAE	20			6.67
THIENEMANNIELLA SP				
LARVAE	20	20	20	20.00
CHIRONOMINAE				
PARACLADOPELMA SP				
LARVAE		39		13.00
POLYPEDILUM SP				
LARVAE	39	59		32.67
POLYPEDILUM FALLAX GROUP				
LARVAE	39	78		39.00

Appendix H-11-2 (Continued)

SITE = 23 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM TRIPODURA GRP.				
LARVAE	59	59	39	52.33
PARATANYTARSUS SP				
LARVAE	39	39	39	39.00
RHEOTANYTARSUS SP				
LARVAE		78		26.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	59	273	20	117.33
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20			6.67

Appendix H-11-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	39			13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE		20		6.67
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20	20		13.33
NAIDIDAE				
NAIS BEHNINGI	254	234		162.67
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39	20	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	566	800	215	527.00
DACTYLOBAETIS SP				
LARVAE	137	98	59	98.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20			6.67
RHITHROGENA SP				
LARVAE	20	39	20	26.33

2.4.5.1248

Appendix H-11-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	39		20	19.67
CHOROTERPES SP				
LARVAE	39		39	26.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	176	39	104.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	351	293	273	305.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		20	20	13.33
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE		20	39	19.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	332	176	293	267.00
HYDROPSYCHE SP				
LARVAE	39		20	19.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

Appendix H-11-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
LEPTOCERIDAE				
OECETIS SP				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	39	98	137	91.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	156	78	98	110.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20		20	13.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	78	20	20	39.33
EUKIEFFERIELLA SP				
LARVAE		20		6.67
NANOCLADIUS SP				
LARVAE			20	6.67
ORTHOCLADIUS SP				
LARVAE	20	20	20	20.00

Appendix H-11-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAKIEFFERIELLA SP				
LARVAE		59	98	52.33
THIENEMANNIELLA SP				
LARVAE	20			6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		39		13.00
POLYPEDILUM SP				
LARVAE			20	6.67
POLYPEDILUM FALLAX GROUP				
LARVAE	39		39	26.00
POLYPEDILUM TRIPODURA GRP.				
LARVAE		39	98	45.67
MICROPSECTRA SP				
LARVAE		20		6.67
PARATANYTARSUS SP				
LARVAE		20		6.67
RHEOTANYTARSUS SP				
LARVAE	78	20	39	45.67

Appendix H-11-2 (Continued)

SITE = 24 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

Appendix H-11-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		39		13.00
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP		20	20	13.33
NAIDIDAE				
NAIS BEHNINGI	371	273	176	273.33
ARTHROPODA				
ARACHNOIDEA				
ACARI		78	78	52.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	332	468	546	448.67
BAETIS SP				
LARVAE	39			13.00
DACTYLOBAETIS SP				
LARVAE	39	117	20	58.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20		6.67
RHITHROGENA SP				
LARVAE		39		13.00

2.4.5.1253

Appendix H-11-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	117	78	117	104.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	293	312	390	331.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE		20		6.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	546	410	507	487.67
HYDROPSYCHE SP				
LARVAE	39		98	45.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20	78		32.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE		78		00

2.4.5.1254

Appendix H-11-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	59	39		32.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE		39	20	19.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
ORTHOCLADIINAE				
UNIDENTIFIED				
LARVAE		39		13.00
CRICOTOPUS ISOCLADIUS				
LARVAE	39			13.00
EUKIEFFERIELLA SP				
LARVAE	20	59	20	33.00
ORTHOCLADIUS SP				
LARVAE	20	20	20	20.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		20	20	13.33
POLYPEDILUM SP				
LARVAE	20			6.67

2.4.5.1255

Appendix H-11-2 (Continued)

SITE = 25 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	39			13.00
CLADOTANYTARSUS SP				
LARVAE		20		6.67
PARATANYTARSUS SP				
LARVAE			78	26.00
RHEOTANYTARSUS SP				
LARVAE	39	59		32.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20	78		32.67
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE			20	6.67

2.4.5.1256

Appendix H-11-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			39	13.00
IMMATURES W/O CAP. CHAETAE SP	78		59	45.67
NAIDIDAE				
NAIS BEHNINGI	624	78	234	312.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	20			6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	156	273	234	221.00
DACTYLOBAETIS SP				
LARVAE	78	39	137	84.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		59		19.67
RHITHROGENA SP				
LARVAE		59		19.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		234		78.00

2.4.5.1257

Appendix H-11-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHORCTERPES SP				
LARVAE		98		32.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	59		98	52.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	351	390	546	429.00
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE		20		6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	195	215	644	351.33
HYDROPSYCHE SP				
LARVAE	59	20	39	39.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39			13.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20	20	39	26.33

Appendix H-11-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE		39	20	19.67
CHIRONOMIDAE				
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			39	13.00
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	20		20	13.33
EUKIEFFERIELLA SP				
LARVAE	20			6.67
ORTHOCLADIUS SP				
LARVAE	78		39	39.00
PARAKIEFFERIELLA SP				
LARVAE	293	117	156	188.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	78	59	39	58.67
POLYPEDILUM SP				
LARVAE	59	20	59	46.00
PARATANYTARSUS SP				
LARVAE	39		20	19.67

2.4.5.1259

Appendix H-11-2 (Continued)

SITE = 26 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE		59	78	45.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE			20	6.67

Appendix H-11-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
CLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL	20	20	20	20.00
TUBIFEX TUBIFEX	20			6.67
IMMATURES WITH CAP. CHAETAE SP	410			136.67
IMMATURES W/O CAP. CHAETAE SP	468		371	279.67
NAIDIDAE				
NAIS BEHNINGI	195	117	156	156.00
ARTHROPODA				
ARACHNOIDEA				
ACARI			78	26.00
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	195	702	566	487.67
DACTYLOBAETIS SP				
LARVAE	59		78	45.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20	20	13.33

Appendix H-11-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	59	332	332	241.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	59	156	78	97.67
CHOROTERPES SP				
LARVAE	98		59	52.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE		20	117	45.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	449	20	293	254.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39		20	19.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE		98		32.67
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE		39		13.00
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	20			6.67

Appendix H-11-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	527	312	390	409.67
HYDROPSYCHE SP				
LARVAE	39	39	20	32.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
LEPTOCERIDAE				
OECETIS SP				
LARVAE	20			6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	39		39	26.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20	20	39	26.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	59		39	32.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	39	20		19.67
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE		20		6.67

2.4.5.1263

Appendix H-11-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	20		59	26.33
EUKIEFFERIELLA SP				
LARVAE		20		6.67
ORTHOCLADIUS SP				
LARVAE	39	20	78	45.67
PARAKIEFFERIELLA SP				
LARVAE	117		137	84.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE			20	6.67
POLYPEDILUM SP				
LARVAE	195	78		91.00
POLYPEDILUM FALLAX GROUP				
LARVAE		39	98	45.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE			20	6.67
RHEOTANYTARSUS SP				
LARVAE	78	20	98	65.33

2.4.5.1264

Appendix H-11-2 (Continued)

SITE = 27 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		117	20	45.67

2.4.5.1265

Appendix H-11-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
ENCHYTRAEIDAE	39			13.00
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			20	6.67
IMMATURES WITH CAP. CHAETAE SP		20	20	13.33
IMMATURES W/O CAP. CHAETAE SP	78	176	156	136.67
NAIDIDAE				
NAIS SP	39	20		19.67
NAIS BEHNINGI	332			110.67
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	195	215	566	325.33
BAETIS SP				
LARVAE		20		6.67
DACTYLOBAETIS SP				
LARVAE	59	39		32.67

2.4.5.1266

Appendix H-11-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20			6.67
RHITHROGENA SP				
LARVAE	20	429	2399	949.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	98	39	527	221.33
CHOROTERPES SP				
LARVAE	78	20		32.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	39	20	52.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	897	39	39	325.00
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39	137	156	110.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20			6.67

Appendix H-11-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
SYSTELLOGNATHA				
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE			78	26.00
HEMIPTERA				
CORIXIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	605	176	351	377.33
HYDROPSYCHE SP				
LARVAE	20	20	98	46.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	78	39		39.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	39		20	19.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				

Appendix H-11-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE			20	6.67
EUKIEFFERIELLA SP				
LARVAE	20			6.67
ORTHOCLADIUS SP				
LARVAE	20			6.67
PARAKIEFFERIELLA SP				
LARVAE	176	20	20	72.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20			6.67
POLYPEDILUM SP				
LARVAE	156			52.00
POLYPEDILUM FALLAX GROUP				
LARVAE			20	6.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE		39		13.00
PARATANYTARSUS SP				
LARVAE			20	6.67

2.4.5.1269

Appendix H-11-2 (Continued)

SITE = 28 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	59	39		32.67

Appendix H-11-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		20		6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	39	293	390	240.67
NAIDIDAE				
NAIS BEHNINGI	176	78	137	130.33
ARTHROPODA				
ARACHNOIDEA				
ACARI		20	78	32.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	468	722	761	650.33
DACTYLOBAETIS SP				
LARVAE	117	78	39	78.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	78	117		65.00
RHITHROGENA SP				
LARVAE	78	215	312	201.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	234	234	78	182.00

2.4.5.1271

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	137	98	20	85.00
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	215	137		117.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	605	468	195	422.67
ODONATA				
ANISOPTERA				
GOMPHIDAE				
UNIDENTIFIED				
LARVAE		39		13.00
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20	39	117	58.67
SYSTELLOGNATHA				
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE			78	26.00
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	566	449	371	462.00
HYDROPSYCHE SP				
LARVAE	20	59		2 3

Appendix H-11-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		39	78	39.00
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			39	13.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	20		39	19.67
CERATOPOGONIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	39		20	19.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		20	39	19.67
DIAMESINAE				
MONODIAMESA SP				
LARVAE		20		6.67
ORTHOCLADIINAE				
CRICOTOPUS CRICOTOPUS				
LARVAE	20			6.67
CRICOTOPUS ISOCLADIUS				
LARVAE	39	98		45.67

2.4.5.1273

Appendix H-11-2 (Continued)

SITE = 29 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	20			6.67
NANOCLADIUS SP				
LARVAE			20	6.67
PARAKIEFFERIELLA SP				
LARVAE	20		20	13.33
PARAPHAENOCLADIUS SP				
LARVAE	39			13.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE		39		13.00
POLYPEDILUM SP				
LARVAE	39		20	19.67
POLYPEDILUM FALLAX GROUP				
LARVAE	39	78		39.00
POLYPEDILUM TRIPODURA GRP.				
LARVAE	59			19.67
RHEOTANYTARSUS SP				
LARVAE	98	39	20	52.33

Appendix H-11-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL			39	13.00
IMMATURES WITH CAP. CHAETAE SP			20	6.67
IMMATURES W/O CAP. CHAETAE SP	78	20	156	84.67
NAIDIDAE				
NAIS SP	59		39	32.67
NAIS BEHNINGI	78	234	429	247.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		20	59	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	195	332	410	312.33
DACTYLOBAETIS SP				
LARVAE	78	39	254	123.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39		13.00

2.4.5.1275

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE		59		19.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		39		13.00
CHORDTERPES SP				
LARVAE			20	6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	78	59	52.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	78	273	98	149.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20	507	332	286.33
HYDROPSYCHE SP				
LARVAE			20	6.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20		39	19.67

2.4.5.1276

Appendix H-11-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
LEPTOCERIDAE				
DECETIS SP				
LARVAE	20		39	19.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	78	59	20	52.33
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	20	20		13.33
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE		20		6.67
EUKIEFFERIELLA SP				
LARVAE		39	20	19.67
ORTHOCLADIUS SP				
LARVAE	59	20	20	33.00
PARAKIEFFERIELLA SP				
LARVAE	59		59	39.33

2.4.5.1277

Appendix H-11-2 (Continued)

SITE = 30 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	39	20	39	32.67
POLYPEDILUM SP				
LARVAE		20	39	19.67
POLYPEDILUM FALLAX GROUP				
LARVAE	20	39	20	26.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE	39		59	32.67
PARATANYTARSUS SP				
LARVAE	39		59	32.67
RHEOTANYTARSUS SP				
LARVAE		39	39	26.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		39		13.00

2.4.5.1278

Appendix H-11-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA	20			6.67
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20	39		19.67
NAIDIDAE				
NAIS SP	273			91.00
NAIS BEHNINGI	98	605	137	280.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	39	20	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	1326	293	332	650.33
BAETIS SP				
LARVAE	98		20	39.33
DACTYLOBAETIS SP				
LARVAE	117	234	78	143.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20		6.67

Appendix H-11-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	117	59	39	71.67
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE		117	20	45.67
CHOROTERPES SP				
LARVAE		312	20	110.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	98	39	78	71.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	449	741	390	526.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	39	39	20	32.67
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE			20	6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	78	39	20	45.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	897	488	332	572

2.4.5.1280

Appendix H-11-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPSYCHIDAE				
HYDROPSYCHE SP				
LARVAE	195		59	84.67
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	20		39	19.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE		20	20	13.33
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	98	20	59	59.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	78	78	59	71.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		13.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		20		6.67
ORTHOCLADIINAE				
CORYNONEURA SP				
LARVAE			20	6.67
CRICOTOPUS ISOCLADIUS				
LARVAE	20	20		13.33

2.4.5.1281

Appendix H-11-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
EUKIEFFERIELLA SP				
LARVAE	39	20	39	32.67
ORTHOCLADIUS SP				
LARVAE		39		13.00
PARAKIEFFERIELLA SP				
LARVAE		176	20	65.33
THIENEMANNIELLA SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20	20	20	20.00
POLYPEDILUM SP				
LARVAE	59	20		26.33
POLYPEDILUM FALLAX GROUP				
LARVAE		20	78	32.67
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20			6.67
TANYTARSUS SP				
LARVAE	20			6.67

2.4.5.1282

Appendix H-11-2 (Continued)

SITE = 31 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	20	98	59	59.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33

Appendix H-11-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
NEMATODA		20	59	26.33
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
LIMNODRILUS HOFFMEISTERI				
TYPICAL		39		13.00
IMMATURES W/O CAP. CHAETAE SP	293	410	98	267.00
NAIDIDAE				
NAIS SP	39			13.00
NAIS BEHNINGI	78	390	78	182.00
ARTHROPODA				
ARACHNOIDEA				
ACARI		59	20	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	117	312	215	214.67
DACTYLOBAETIS SP				
LARVAE	78	98	39	71.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE	20	98	78	65.33

Appendix H-11-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	59	176	215	150.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	78	59	59	65.33
CHOROTERPES SP				
LARVAE	332	351	195	292.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	59	20	33.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	332	741	429	500.67
PLECOPTERA				
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE	20			6.67
COLEOPTERA				
ELMIDAE				
ZAITZEVIA SP				
LARVAE	20			6.67
TRICHOPTERA				
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	371	585	390	448.67
HYDROPSYCHE SP				
LARVAE	20	39		19.67

2.4.5.1285

Appendix H-11-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98	20	98	72.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		13.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE		78		26.00
DIAMESINAE				
MONODIAMESA SP				
LARVAE		20		6.67
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE		59		19.67
NANOCLADIUS SP				
LARVAE	20	39		19.67
ORTHOCLADIUS SP				
LARVAE	20	39		19.67

2.4.5.1286

Appendix H-11-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
ORTHOCLADIINAE				
PARAKIEFFERIELLA SP				
LARVAE	117	449	20	195.33
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
THIENEMANNIELLA SP				
LARVAE	39			13.00
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	39	254		97.67
PARACLADOPELMA SP				
LARVAE		20		6.67
POLYPEDILUM SP				
LARVAE		39	20	19.67
POLYPEDILUM FALLAX GROUP				
LARVAE	137	59		65.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE		20		6.67
TANYTARSUS SP				
LARVAE		20		6.67

2.4.5.1287

Appendix H-11-2 (Continued)

SITE = 32 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
PARATANYTARSUS SP				
LARVAE		20		6.67
RHEOTANYTARSUS SP				
LARVAE	98	137	20	85.00

Appendix H-11-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP		59		19.67
NAIDIDAE				
NAIS BEHNINGI	59	20	39	39.33
ARTHROPODA				
ARACHNOIDEA				
ACARI			20	6.67
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	312	1034	800	715.33
BAETIS SP				
LARVAE	20			6.67
DACTYLOBAETIS SP				
LARVAE	117	117	20	84.67
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		39	78	39.00
RHITHROGENA SP				
LARVAE	98	293	546	312.33
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	20	39	137	65.33

2.4.5.1289

Appendix H-11-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
CHOROTERPES SP				
LARVAE	39	20	59	39.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	39	39	32.67
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	312	468	332	370.67
PLECOPTERA				
UNIDENTIFIED				
LARVAE		20	39	19.67
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE			20	6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	20	20		13.33
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	273	332	585	396.67
HYDROPSYCHE SP				
LARVAE		20	20	13.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	39		78	39.00

2.4.5.1290

Appendix H-11-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	20			6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98	117	195	136.67
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE		39		13.00
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE			20	6.67
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE		20	20	13.33
EUKIEFFERIELLA SP				
LARVAE	39	20	20	26.33
CHIRONOMINAE				
CRYPTOCHIRONOMUS SP				
LARVAE			20	6.67
MICROTENDIPES SP				
LARVAE			20	6.67
POLYPEDILUM SP				
LARVAE			39	13.00

Appendix H-11-2 (Continued)

SITE = 33 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
POLYPEDILUM FALLAX GROUP				
LARVAE	20	59		26.33
POLYPEDILUM TRIPODURA GRP.				
LARVAE	20		78	32.67
RHEOTANYTARSUS SP				
LARVAE	39	39	78	52.00
SIMULIIDAE				
UNIDENTIFIED				
LARVAE		59	59	39.33

2.4.5.1292

SITE = 34 REPS= 3

Appendix H-11-2 (Continued)

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20			6.67
NAIDIDAE				
NAIS SP		20		6.67
NAIS BEHNINGI	39	98	59	65.33
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	20	39	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	936	780	585	767.00
BAETIS SP				
LARVAE	78	39		39.00
DACTYLOBAETIS SP				
LARVAE	39			13.00
HEPTAGENIIDAE				
HEPTAGENIA SP				
LARVAE		20		6.67
RHITHROGENA SP				
LARVAE	917	800	741	819.33

2.4.5.1293

Appendix H-11-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
EPHEMEROPTERA				
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE	215	137	176	176.00
CHOROTERPES SP				
LARVAE	20	20		13.33
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	20	39	20	26.33
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	98	137	39	91.33
PLECOPTERA				
UNIDENTIFIED				
LARVAE	39	20		19.67
SYSTELLOGNATHA				
PERLIDAE				
CLAASSENIA SABULOSA				
LARVAE		20	39	19.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	20		39	19.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	20	273	78	123.67
HYDROPSYCHE SP				
LARVAE		20	39	19.67

2.4.5.1294

Appendix H-11-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
TRICHOPTERA				
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE			20	6.67
LEPTOCERIDAE				
OECETIS SP				
LARVAE		20		6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE		20		6.67
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	98	98	59	85.00
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20			6.67
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	20	20		13.33
EUKIEFFERIELLA SP				
LARVAE	20	39		19.67
CHIRONOMINAE				
POLYPEDILUM SP				
LARVAE	20	78	59	52.33
PARATANYTARSUS SP				
LARVAE			20	6.67

2.4.5.1295

Appendix H-11-2 (Continued)

SITE = 34 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	20	20	39	26.33
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	176	585	254	338.33
RHAGIONIDAE				
ATHERIX VARIEGATA				
LARVAE	20			6.67

Appendix H-11-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ANNELIDA				
OLIGOCHAETA				
HAPLOTAXIDA				
TUBIFICIDAE				
IMMATURES W/O CAP. CHAETAE SP	20	39		19.67
NAIDIDAE				
NAIS BEHNINGI	98	215	20	111.00
ARTHROPODA				
ARACHNOIDEA				
ACARI	20	20	39	26.33
INSECTA				
EPHEMEROPTERA				
BAETIDAE				
UNIDENTIFIED				
LARVAE	741	1209	585	845.00
DACTYLOBAETIS SP				
LARVAE	20		39	19.67
HEPTAGENIIDAE				
RHITHROGENA SP				
LARVAE	98	20	98	72.00
LEPTOPHLEBIIDAE				
TRAVERELLA ALBERTANA				
LARVAE			20	6.67
EPHEMERELLIDAE				
EPHEMERELLA SP				
LARVAE	39	117		52.00
TRICORYTHIDAE				
TRICORYTHODES SP				
LARVAE	351	254		201.67

2.4.5.1297

Appendix H-11-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
PLECOPTERA				
UNIDENTIFIED				
LARVAE	20		20	13.33
SYSTELLOGNATHA				
PERLODIDAE				
ISOGENUS SP				
LARVAE			20	6.67
TRICHOPTERA				
GLOSSOSOMATIDAE				
UNIDENTIFIED				
LARVAE	39	20		19.67
HYDROPSYCHIDAE				
UNIDENTIFIED				
LARVAE	780	1229	176	728.33
HYDROPSYCHE SP				
LARVAE	254	254	156	221.33
HYDROPTILIDAE				
UNIDENTIFIED				
LARVAE	98	20	20	46.00
BRACHYCENTRIDAE				
BRACHYCENTRUS SP				
LARVAE	20			6.67
LEPIDOPTERA				
PYRALIDAE				
UNIDENTIFIED				
LARVAE	117	195	39	117.00
DIPTERA				
TIPULIDAE				
LIMNOPHILA SP				
LARVAE	59	20		26.33

2.4.5.1298

Appendix H-11-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
UNIDENTIFIED				
PUPAE	20	20		13.33
TANYPODINAE				
THIENEMANNIMYIA GROUP SP				
LARVAE	59	20		26.33
ORTHOCLADIINAE				
CRICOTOPUS ISOCLADIUS				
LARVAE	78	20		32.67
EUKIEFFERIELLA SP				
LARVAE	59	98		52.33
PARAPHAENOCLADIUS SP				
LARVAE		20		6.67
CHIRONOMINAE				
MICROTENDIPES SP				
LARVAE	20	20		13.33
POLYPEDILUM SP				
LARVAE	59	20		26.33
POLYPEDILUM FALLAX GROUP				
LARVAE		78		26.00
PARATANYTARSUS SP				
LARVAE		59		19.67

2.4.5.1299

Appendix H-11-2 (Continued)

SITE = 35 REPS= 3

TAXON	REP A	REP B	REP C	MEAN
ARTHROPODA				
INSECTA				
DIPTERA				
CHIRONOMIDAE				
CHIRONOMINAE				
RHEOTANYTARSUS SP				
LARVAE	39	39	20	32.67
SIMULIIDAE				
UNIDENTIFIED				
LARVAE	254	332	20	202.00

2.4.6 SEDIMENT CHEMISTRY

2.4.6 Sediment Chemistry

Appendix H-12-1 includes the results of chemical analysis of sediment samples collected during the August - September 1976 collection period. A summary of the results for the sampling period is presented below. Concentrations of the parameters correspond closely to those observed during the same 1975 sampling period with the exception of aluminum which was found in lower concentrations in Yellow Creek in 1976 than in 1975 (7,200 - 15,000 µg/g).

August - September 1976

Parameter (µg/g)	White River	Yellow Creek
Aluminum	3,300 - 11,000	4,600 - 13,500
Arsenic	3.1 - 6.4	3.4 - 7.7
Lead	5.4 - 18.0	6.8 - 13.0
Zinc	30 - 61	30 - 60

Results of the sediment pesticides analysis for the April 1976 and the May - June 1976 sampling periods are reported in Appendices H-13-1 and H-13-2, respectively.

Note: Benthos Appendices

Where *Labrundinia* is listed, should read *Nilotanypus*

2.4.6 - Sediment Chemistry Data

SEDIMENT CHEMISTRY RAW DATA

APPENDIX H-12-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES
AUGUST-SEPTEMBER, 1976.

APPENDIX H-12-1

RESULTS OF SEDIMENT CHEMISTRY ANALYSIS DURING RBOSP AQUATIC BASELINE STUDIES AUGUST - SEPTEMBER 1976. (Results are expressed in µg/g unless otherwise stated.)[1]

	PARAMETER							
Station	Aluminum (Al)	Arsenic (Ar)	Lead (Pb)	Mercury (Hg) (ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
1-A	9700	28	24	52	3530	1180	131000	100
1-B	10700	19	23	36	5220	1290	170000	110
2-A	11700	15	17	42	3990	1240	124000	91
2-B	10400	16	13	36	5240	1260	159000	93
3-A	10100	14	15	<20	488	981	37000	63
3-B	9700	13	14	<20	537	930	37000	63
4-A	9300	14	13	<20	580	823	37000	49
4-B	9500	15	11	<20	460	818	35000	47
5-A	9800	4.4	11	<20	614	752	37000	52
5-B	10700	4.4	11	<20	840	738	38000	54
7-A	9200	13	11	<20	469	731	32000	46
7-B	9300	12	11	<20	438	709	31000	46
8-A	9500	9.2	11	<20	973	838	49000	47
8-B	8300	9.2	11	<20	624	763	39000	47
9-A	10000	9.2	14	<20	1000	826	55000	53
9-B	9800	8.8	13	<20	954	787	46000	51
13-A	8300	9.4	15	52	422	721	31000	42
13-B	7500	11	15	58	524	683	32000	43
14-A	9300	3.3	13	<20	312	588	31000	37
14-B	9600	3.2	11	<20	265	551	31000	35
19-A	6900	5.2	9.1	24	264	699	23000	39
19-B	6800	5.3	9.0	<20	241	732	22000	43
20-A	4600	7.7	7.4	24	186	600	22000	30
20-B	5000	7.1	9.6	32	209	636	20000	36

[1] Stations 6, 10-12, 15-18, were dry at the time of sampling.

APPENDIX H-12-1 (Continued)

Station	Aluminum (Al)	Arsenic (As)	Lead (Pb)	Mercury (Hg)(ppb)	Kjeldahl (N)	Phosphate (P)	Volatile Solids	Zinc (Zn)
	PARAMETER							
21-A	6900	3.4	6.8	<20	503	665	39000	45
21-B	7600	3.9	7.0	<20	657	686	43000	49
22-A	11300	5.3	13	<20	1650	809	75000	55
22-B	13500	4.7	13	<20	1960	816	83000	60
23-A	4700	3.9	12	<20	469	460	26000	43
23-B	4600	3.9	11	<20	426	455	32000	38
24-A	5800	3.1	10	<20	687	528	31000	37
24-B	5500	3.0	11	26	815	508	39000	34
25-A	3800	4.6	8.2	<20	262	425	19000	32
25-B	4200	4.5	8.2	<20	246	448	20000	30
26-A	8200	5.7	15	36	958	597	44000	50
26-B	8300	5.5	14	28	756	543	38000	47
27-A	9800	4.9	18	34	1480	632	58000	56
27-B	11000	5.4	18	42	1680	625	62000	61
28-A	7000	5.0	15	<20	860	552	36000	45
28-B	7400	4.7	13	<20	877	571	36000	44
29-A	8500	5.5	14	26	1250	618	64000	51
29-B	9000	6.4	13	26	1340	626	48000	53
30-A	6900	4.2	12	26	1130	539	43000	44
30-B	6700	4.2	12	26	1050	526	45000	45
31-A	3400	5.1	5.4	28	241	597	12000	35
31-B	3300	5.9	5.8	32	191	667	12000	60
32-A	6600	4.4	7.6	<20	624	538	43000	43
32-B	5000	4.2	7.6	<20	509	450	21000	36
33-A	6400	4.4	8.8	<20	877	546	34000	45
33-B	5900	4.4	8.2	<20	836	522	34000	40
34-A	3500	4.1	6.2	<20	379	433	19000	33
34-B	3500	4.4	5.6	<20	402	443	25000	31
35-A	6000	5.0	8.7	26	564	484	37000	43
35-B	6900	4.9	9.3	26	549	481	37000	46

APPENDIX H-13-1

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES
APRIL 1976

APPENDIX H-13-1

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES, APRIL 1976
(Data are expressed in mg/kg.)

Station	Parameter			
	Malathion	DDT	Lindane	Toxaphene
5-A	<0.1	<0.005	<0.001	<0.5
5-B	<0.1	<0.005	<0.001	<0.5
7-A	<0.1	<0.005	<0.001	<0.5
7-B	<0.1	<0.005	<0.001	<0.5
8-A	<0.1	<0.005	<0.001	<0.5
8-B	<0.1	<0.005	<0.001	<0.5
9-A	<0.1	<0.005	<0.001	<0.5
9-B	<0.1	<0.005	<0.001	<0.5
13-A	<0.1	<0.005	<0.001	<0.5
13-B	<0.1	<0.005	<0.001	<0.5
14-A	<0.1	<0.005	<0.001	<0.5
14-B	<0.1	<0.005	<0.001	<0.5
15-A	<0.1	<0.005	<0.001	<0.5
15-B	<0.1	<0.005	<0.001	<0.5
19-A	<0.1	<0.005	<0.001	<0.5
19-B	<0.1	<0.005	<0.001	<0.5
20-A	<0.1	<0.005	<0.001	<0.5
20-B	<0.1	<0.005	<0.001	<0.5
23-A	<0.1	<0.005	<0.001	<0.5
23-B	<0.1	<0.005	<0.001	<0.5
25-A	<0.1	<0.005	<0.001	<0.5
25-B	<0.1	<0.005	<0.001	<0.5
27-A	<0.1	<0.005	<0.001	<0.5
27-B	<0.1	<0.005	<0.001	<0.5
28-A	<0.1	<0.005	<0.001	<0.5
28-B	<0.1	<0.005	<0.001	<0.5
29-A	<0.1	<0.005	<0.001	<0.5
29-B	<0.1	<0.005	<0.001	<0.5
33-A	<0.1	<0.005	<0.001	<0.5
33-B	<0.1	<0.005	<0.001	<0.5
34-A	<0.1	<0.005	<0.001	<0.5
34-B	<0.1	<0.005	<0.001	<0.5

APPENDIX H-13-2

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES
MAY - JUNE 1976

APPENDIX H-13-2

RESULTS OF SEDIMENT PESTICIDE ANALYSIS DURING
RBOSP AQUATIC BASELINE STUDIES, MAY - JUNE, 1976
(Data are expressed in mg/kg.)

Station	Parameter			
	Malathion	DDT	Lindane	Toxaphene
7-A	<0.1	<0.005	<0.001	<0.5
7-B	<0.1	<0.005	<0.001	<0.5
8-A	<0.1	<0.005	<0.001	<0.5
8-B	<0.1	<0.005	<0.001	<0.5
9-A	<0.1	<0.005	<0.001	<0.5
9-B	<0.1	<0.005	<0.001	<0.5
13-A	<0.1	<0.005	<0.001	<0.5
13-B	<0.1	<0.005	<0.001	<0.5
14-A	<0.1	<0.005	<0.001	<0.5
14-B	<0.1	<0.005	<0.001	<0.5
15-A	<0.1	<0.005	<0.001	<0.5
15-B	<0.1	<0.005	<0.001	<0.5
19-A	<0.1	<0.005	<0.001	<0.5
19-B	<0.1	<0.005	<0.001	<0.5
20-A	<0.1	<0.005	<0.001	<0.5
20-B	<0.1	<0.005	<0.001	<0.5
23-A	<0.1	<0.005	<0.001	<0.5
23-B	<0.1	<0.005	<0.001	<0.5
25-A	<0.1	<0.005	<0.001	<0.5
25-B	<0.1	<0.005	<0.001	<0.5
27-A	<0.01	<0.005	<0.001	<0.5
27-B	<0.01	<0.005	<0.001	<0.5
28-A	<0.01	<0.005	<0.001	<0.5
28-B	<0.01	<0.005	<0.001	<0.5
29-A	<0.01	<0.005	<0.001	<0.5
29-B	<0.01	<0.005	<0.001	<0.5

2.4.7 MACROPHYTES

2.4.7 Macrophytes

During the August - September 1976 sampling period, aquatic macrophytes were observed at Stations 2, 4, 5, 7, 8, 14, and 19. At Stations 2, 4, and 7, Ranunculus cymbolaria was observed in low abundance. At Station 5, Chara kieneri and Ma sh Marigold were present in moderate abundance. At Station 8, the abundance of watercress Rorippa nasturtium aquaticum was low. At Station 14, Zannichellia palustris was abundant, whereas, sedges were observed in low abundance. At Station 19, Ranunculus cymbolaria was observed in very low abundance and rushes were present in rank abundance.

246 FISH

2.4.8 Fish

Fish data from the July - August 1976 sampling period are presented in Appendices H-14-1 through H-14-3. During the July - August 1976 sampling, a total of 465 fish representing seven species were captured in the White River. No fish were captured in Yellow Creek. The most abundant species were flannelmouth sucker and speckled dace. No game fish were observed. In July - August 1975, 201 fish representing 10 species were captured in the White River and no fish were captured in Yellow Creek. Flannelmouth suckers and speckled dace were also dominant in July - August 1975.

Fish data from the August - September 1976 sampling period are presented in Appendices H-15-1 through H-15-3. During the August - September 1976 sampling, a total of 867 fish representing eight species were captured in the WHite RIver. No fish were captured in Yellow Creek. The most abundant species were speckled dace and mottled sculpin. During August - September 1975, 941 fish were captured in the White River and eight were captured in Yellow Creek. The most abundant fishes captured at that time were speckled dace and flannelmouth sucker.

2.4.8 - Fish Data

APPENDIX H-14-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-14-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, JULY - AUGUST 1976

Common Name	Scientific Name	Number Captured
Roundtail Chub	Gila robusta	1
Flannelmouth Sucker	Catostomus latipinnis	180
Bluehead Sucker	Catostomus discobolus	39
Mottled Sculpin	Cottus bairdi	75
Speckled Dace	Rhinichthys osculus	163
Fathead Minnow	Pimephales promelas	5
Carp	Cyprinus carpio	2

FISH RAW DATA

APPENDIX H-14-2

FISH DATA
WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

APPENDIX H-14-2

FISH DATA
WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

Station Replicate	Date	Species	Length (mm)	Weight (gm)
23-A	8-4-76	Flannelmouth sucker	380	405.00
		"	247	45.00
		"	249	50.00
		Bluehead sucker	208	15.00
		Roundtail chub	287	95.00
23-B	8-4-76	Flannelmouth sucker	442	695.00
		"	438	670.00
24-A	8-7-76	Flannelmouth sucker	45	.95
		Mottled sculpin	42	.86
		"	38	.70
		"	35	.52
		"	35	.51
		"	34	.48
		"	33	.43
		Speckled dace	72	3.84
		"	43	.85
		"	36	.44
		"	32	.41
		"	29	.30
		"	29	.29
		"	20	.12
24-B	8-7-76	Mottled sculpin	74	6.52
		"	37	.58
		"	36	.60
		Speckled dace	49	3.13
		"	25	.16
26-A	8-7-76	Flannelmouth sucker	40	.62
		"	37	.53
		"	27	.29
		Bluehead sucker	121	17.58
		Mottled sculpin	91	11.86
		"	39	.80
		"	37	.73
		"	37	.71
		"	36	.73
		"	36	.67
		"	36	.62
		"	35	.71

APPENDIX H-14-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
26-A	8-7-76	Mottled sculpin	35	.58
		"	34	.53
		"	33	.53
		"	33	.50
		Speckled dace	76	5.09
		"	35	.47
		"	31	.40
		"	26	.24
		"	26	.23
		"	26	.21
		"	24	.16
26-B	8-7-76	Flannelmouth sucker	46	.79
		"	40	.58
		"	42	.57
		Mottled sculpin	82	7.79
		"	51	1.88
		"	37	.74
		"	32	.50
		Speckled dace	87	7.35
		"	32	.37
		"	31	.30
		"	30	.28
		"	29	.29
		"	26	.22
		"	26	.16
27-A	8-2-76	Roundtail chub	316	220.00
		Flannelmouth sucker	360	580.00
		"	311	260.00
		"	311	245.00
		"	293	200.00
		Speckled dace	87	6.65
		"	30	.29
		"	27	.20
		"	24	.11
27-B	8-2-76	Flannelmouth sucker	412	590.00
		"	293	225.00
		"	249	120.00
28-A	8-2-76	Flannelmouth sucker	139	27.84
		"	41	.53
		"	34	.26
		"	28	.15
		Bluehead sucker	146	32.09
		Speckled dace	78	4.72

APPENDIX H-14-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
28-A	8-2-76	Speckled dace	68	3.03
		"	65	3.24
		"	57	1.94
		"	29	.29
28-B	8-2-76	Flannelmouth sucker	244	132.75
		"	134	23.15
		Bluehead sucker	169	49.88
		Carp	405	1030.00
29-A	8-2-76	Flannelmouth sucker	352	375.00
		"	37	.45
		Bluehead sucker	205	86.98
		"	184	61.37
		Mottled sculpin	43	1.04
		"	38	.84
		"	36	.84
		"	36	.75
		"	36	.66
		"	35	.60
		Speckled dace	80	5.50
		"	72	3.49
		"	65	3.13
		"	65	2.78
		"	52	1.53
		Carp	443	1250.00
29-B	8-2-76	Flannelmouth sucker	34	.33
		Mottled sculpin	39	.79
		"	36	.68
		"	35	.62
30-A	8-6-76	Flannelmouth sucker	46	.75
		"	40	.45
		"	42	.60
		Bluehead sucker	225	160.00
		Mottled sculpin	40	.73
		"	35	.50
		"	35	.50
		"	33	.45
		Speckled dace	32	.35
		"	28	.20
		"	26	.15
		"	25	.10
30-B	8-6-76	Speckled dace	35	.42
		"	28	.24
		"	24	.16

APPENDIX H-14-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
31-A	8-6-76	Mottled sculpin	81	7.24
		Speckled dace	86	6.92
32-A	8-6-76	Flannelmouth sucker	41	.65
		"	39	.48
		"	27	.19
		Mottled sculpin	36	.53
		"	34	.51
		"	32	.49
		Speckled dace	57	2.15
		"	26	.18
32-B	8-6-76	Mottled sculpin	40	.85
		"	35	.63
		"	34	.57
		"	33	.50
		"	31	.39
		Speckled dace	84	5.76
		"	33	.46
		"	33	.46
		"	31	.32
		"	30	.30
		"	30	.29
		"	27	.20
		"	26	.19
		"	23	.17
33-A	8-3-76	Flannelmouth sucker	258	177.44
		"	141	27.07
		"	41	.52
33-B	8-3-76	Flannelmouth sucker	437	710.00
		Bluehead sucker	237	120.00
34-A	8-3-76	Flannelmouth sucker	370	490.00
		"	287	220.00
		Mottled sculpin	31	.43
		Speckled dace	87	5.07
34-B	8-3-76	Flannelmouth sucker	367	450.00
		"	41	.52
		"	39	.47
		Speckled dace	80	5.79
		"	29	.25
35-A	8-3-76	Flannelmouth sucker	39	.45
		Mottled sculpin	37	.61
		"	36	.52
		"	35	.50
		"	35	.47

APPENDIX H-14-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
35-A	8-3-76	Flannelmouth sucker	35	.44
		"	33	.47
		"	33	.45
		"	33	.40
		"	32	.43
		"	32	.36
		"	31	.36
		"	31	.32
		"	31	.31
		"	28	.24
		Speckled dace	67	3.19
		"	66	3.24
		"	35	.45
		"	32	.33
		"	31	.29
		"	31	.25
		"	30	.31
		"	30	.27
		"	29	.28
		"	29	.22
		"	28	.23
		"	28	.20
		"	28	.18
		"	27	.22
		"	27	.20
		"	26	.18
		"	26	.16
		"	25	.19
		"	25	.19
		"	25	.17
		"	25	.15
		"	24	.16
		"	24	.15
		"	23	.15
35-B	8-3-76	Flannelmouth sucker	29	.20
		Mottled sculpin	38	.68
		"	35	.51
		"	34	.49
		"	34	.49
		"	33	.51
		"	32	.44
		"	32	.43
		"	28	.37
		Speckled dace	41	.75
		"	33	.48

APPENDIX H-14-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
35-B	8-3-76	Speckled dace	31	.37
		"	29	.29
		"	28	.28
		"	27	.25
		"	27	.22
		"	21	.13

APPENDIX H-14-3

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
JULY - AUGUST 1976

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP ACQUATIC BASELINE STUDIES, JULY - AUGUST 1976.

Species	Length (mm)	Weight (gm)	#	Food Item
Station 23 Replicate A Date 8-4-76				
Flannelmouth Sucker	380	405	20	Chironomidae Larvae
			1	Chironomidae Pupae
			4	Baetidae Nymph
			12	Hydropsychidae Larvae
			2	Hydropsyche Larvae
			10	Ephemerella Nymph
			26	Tricorythodes Nymph
			1	Dytiscidae Larvae
			1	Hydroptilidae Larvae
			1	Traverella albertana Nymph
			2	Oecetis Larvae
			1	Empididae Larvae
			2	Choroterpes Nymph
Flannelmouth Sucker	247	45		None Observed
Flannelmouth Sucker	249	50	3	Chironomidae Larvae
			9	Baetidae Nymph
			7	Hydropsychidae Larvae
			4	Ephemerella Nymph
			21	Tricorythodes Nymph
			1	Traverella albertana Nymph
Bluehead Sucker	208	15		Nothing Found
Roundtail Chub	287	95		Nothing Found
Station 23 Replicate B Date 8-4-76				
Flannelmouth Sucker	442	695	13	Chironomidae Larvae
			1	Simuliidae Larvae
			4	Plecoptera Nymph
			19	Baetidae Nymph
			22	Hydropsychidae Larvae
			5	Hydropsyche Larvae
			1	Heptagenia Nymph
			24	Ephemerella Nymph
			52	Tricorythodes Nymph
			8	Rhithrogena Nymph
			2	Hydroptilidae Larvae

APPENDIX H-14-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 23 Replicate B Date 8-4-76				
Flannelmouth Sucker	442	695	1	Limnophila Larvae
			16	Traverella albertana Nymph
			1	Anisoptera Nymph
			1	Oecetis Larvae
			1	Brachycentrus Larvae
Flannelmouth Sucker	438	670	14	Chironomidae Larvae
			10	Baetidae Nymph
			11	Hydropsychidae Larvae
			25	Ephemerella Nymph
			53	Tricorythodes Nymph
			3	Rhithrogena Nymph
			2	Hydroptilidae Larvae
			2	Limnophila Larvae
			4	Traverella albertana nym
			1	Simulium Pupae
			1	Oecetis Larvae
			2	Choroterpes Nymph
Station 24 Replicate A Date 8-7-76				
Mottled Sculpin	42	.86	8	Baetidae Nymph
			1	Hydropsyche Larvae
			6	Tricorythodes Nymph
Mottled Sculpin	38	.70	3	Tricorythodes Nymph
Mottled Sculpin	35	.52	1	Tricorythodes Nymph
Mottled Sculpin	34	.48		Nothing found
Mottled Sculpin	35	.51	12	Baetidae Nymph
			1	Rhithrogena Nymph
Mottled Sculpin	33	.43	1	Chironomidae
			2	Hydropsychidae Larvae
			1	Tricorythodes Nymph
Station 24 Replicate B Date 8-7-76				
Mottled Sculpin	74	6.52	2	Tricorythodes Nymph
			1	Choroterpes Nymph
Mottled Sculpin	36	.60	1	Baetidae Nymph
			2	Tricorythodes Nymph
			1	Choroterpes Nymph

APPENDIX H-14-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 24 Replicate B Date 8-7-76				
Mottled Sculpin	37	.58	1	Tricorythodes Nymph
Station 26 Replicate A Date 8-7-76				
Mottled Sculpin	91	11.86	1	Hydropsychidae Larvae
			2	Tricorythodes Nymph
			3	Choroterpes Nymph
Mottled Sculpin	33	.50	1	Baetidae Nymph
Mottled Sculpin	39	.80		Nothing found
Mottled Sculpin	37	.73	1	Simuliidae Larvae
			2	Hydropsychidae Larvae
			3	Tricorythodes Nymph
Mottled Sculpin	36	.62	1	Tricorythodes Nymph
			1	Traverella albertana Nymph
			7	Hydropsychidae Larvae
Mottled Sculpin	33	.50	1	Traverella albertana Nymph
Mottled Sculpin	36	.73	2	Chironomidae Larvae
			2	Baetidae Nymph
Mottled Sculpin	37	.71	2	Baetidae Nymph
			2	Hydropsychidae Nymph
Mottled Sculpin	36	.67	2	Chironomidae Larvae
			2	Baetidae Nymph
			1	Hydropsychidae Larvae
			2	Tricorythodes Nymph
Mottled Sculpin	35	.58	1	Chironomidae Larvae
			1	Hydropsychidae Larvae
			1	Tricorythodes Nymph
Mottled Sculpin	35	.71	1	Baetidae Nymph
			1	Hydropsychidae Larvae
Mottled Sculpin	34	.53		Nothing found
Mottled Sculpin	33	.53	1	Chironomidae Larvae
			3	Tricorythodes Nymph
Station 26 Replicate B Date 8-7-76				
Mottled Sculpin	82	7.79	1	Chironomidae Larvae
			2	Hydropsyche Larvae
			1	Traverella albertana Nymph
Mottled Sculpin	51	1.88	1	Chironomidae Larvae
			1	Simuliidae Larvae
			1	Tricorythodes Nymph
			1	Traverella albertana Nymph

Species	Length (mm)	Weight (gm)	#	Food Item
Station 26 Replicate B Date 8-7-76				
Mottled Sculpin	37	.74	4	Baetidae Nymph
Mottled Sculpin	32	.50	1	Tricorythodes Nymph
Station 27 Replicate A Date 8-2-76				
Flannelmouth Sucker	360	580	22	Chironomidae Larvae
			4	Chironomidae Pupae
			1	Ceratopogonidae Larvae
			19	Baetidae Nymph
			1	Hydropsychidae Larvae
			2	Hydropsyche Larvae
			1	Corixidae Nymph
			4	Ephemerella Nymph
			6	Tricorythodes Nymph
			3	Hydroptilidae Larvae
			1	Choroterpes Nymph
Flannelmouth Sucker	311	260	12	Chironomidae Larvae
			7	Baetidae Nymph
			2	Hydropsychidae Larvae
			2	Hydropsyche Larvae
			5	Ants
			4	Ephemerella Nymph
			7	Tricorythodes Nymph
			1	Rhithrogena Nymph
			5	Hydroptilidae Larvae
			1	Coleoptera Adult
			1	Traverella albertana Nymph
			1	Simulium Pupae
			2	Choroterpes Nymph
Flannelmouth Sucker	311	245	17	Chironomidae Larvae
			6	Baetidae Nymph
			2	Hydropsychidae Larvae
			1	Hydropsyche Larvae
			8	Ephemerella Nymph
			9	Tricorythodes Nymph
			5	Hydroptilidae Larvae
			2	Coleoptera Adult
			2	Traverella albertana Nymph
			1	Simulium Pupae
			1	Empididae Pupae

APPENDIX H-14-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 27 Replicate A Date 8-2-76				
Flannelmouth Sucker	293	200	13	Chironomidae Larvae
			1	Chironomidae Pupae
			10	Baetidae Nymph
			4	Hydropsychidae Larvae
			2	Hydropsyche Larvae
			5	Ants
			4	Ephemerella Nymph
			10	Tricorythodes Nymph
			1	Empididae Larvae
			1	Choroterpes Nymph
Roundtail Chub	316	220	1	Chironomidae Larvae
			1	Corixidae ♀
Station 27 Replicate B Date 8-2-76				
Flannelmouth Sucker	412	590	19	Chironomidae Larvae
			1	Chironomidae Pupae
			5	Baetidae Nymph
			2	Hydropsychidae Larvae
			1	Ants
			4	Ephemerella Nymph
			6	Tricorythodes Nymph
			2	Rhithrogena Nymph
			1	Hydroptilidae Larvae
			2	Corixidae Nymph
			1	Brachycentrus Larvae
			1	Choroterpes Nymph
Flannelmouth Sucker	293	225	9	Chironomidae Larvae
			11	Baetidae Nymph
			2	Hydropsychidae Larvae
			1	Hydropsyche Larvae
			1	Ant
			3	Ephemerella Nymph
			19	Tricorythodes Nymph
			2	Hydroptilidae Larvae
			2	Simulium Pupae
			1	Choroterpes Nymph
Flannelmouth Sucker	249	120	10	Chironomidae Larvae
			2	Chironomidae Pupae

Species	Length (mm)	Weight (gm)	Food Item #	
	Station 27	Replicate B	Date 8-2-76	
Flannelmouth Sucker	249	120	8	Baetidae Nymph
			1	Hydropsychidae Larvae
			1	Ant
			6	Ephemerella Nymph
			12	Tricorythodes Nymph
			4	Hydroptilidae Larvae
			2	Traverella albertana Nymph
			1	Empididae Pupae
	Station 28	Replicate A	Date 8-2-76	
Flannelmouth Sucker	28	.15	57	Chironomidae Larvae
			1	Ceratopogonidae Larvae
			7	Nematoda
	Station 29	Replicate A	Date 8-2-76	
Flannelmouth Sucker	352	375	50	Chironomidae Larvae
			1	Chironomidae Pupae
			5	Simuliidae Larvae
			49	Baetidae Nymph
			56	Hydropsychidae Larvae
			43	Hydropsyche Larvae
			1	Ephemerella Nymph
			4	Tricorythodes Nymph
			3	Rhithrogena Nymph
			1	Hydroptilidae Larvae
			5	Traverella albertana Nymph
			1	Choroterpes Nymph
Mottled Sculpin	36	.75	9	Baetidae Nymph
Mottled Sculpin	38	.84	4	Baetidae Nymph
			1	Hydropsychidae Larvae
Mottled Sculpin	43	1.04		Nothing found
Mottled Sculpin	36	.84	2	Baetidae Nymph
Mottled Sculpin	36	.66	1	Baetidae Nymph
Mottled Sculpin	35	.60	2	Baetidae Nymph

Species	Length (mm)	Weight (gm)	Food Item #	
Station 29 Replicate B Date 8-2-76				
Mottled Sculpin	39	.79	1	Baetidae Nymph
			1	Tricorythodes Nymph
			1	Traverella albertana Nymph
Mottled Sculpin	36	.68	3	Baetidae Nymph
			1	Rhithrogena Nymph
			1	Traverella albertana Nymph
Mottled Sculpin	35	.62	1	Baetidae Nymph
Station 30 Replicate A Date 8-6-76				
Flannelmouth Sucker	225	.75		Nothing found
Mottled Sculpin	35	.50	1	Chironomidae Larvae
			5	Tricorythodes Nymph
Mottled Sculpin	40	.73	1	Hydropsychidae Larvae
			1	Baetidae Nymph
			1	Tricorythodes Nymph
			2	Traverella albertana Nymph
Mottled Sculpin	35	.50	1	Ephemerella Nymph
			2	Tricorythodes Nymph
			1	Traverella albertana Nymph
Mottled Sculpin	33	.45	2	Tricorythodes Nymph
Station 31 Replicate A Date 8-6-76				
Mottled Sculpin	81	7.24	4	Hydropsychidae Larvae
Station 32 Replicate A Date 8-6-76				
Mottled Sculpin	34	.51		Nothing found
Mottled Sculpin	36	.53	3	Chironomidae Larvae
Station 32 Replicate B Date 8-6-76				
Mottled Sculpin	40	.85	1	Hydropsychidae Larvae
			2	Tricorythodes Nymph
Mottled Sculpin	35	.63	17	Baetidae Nymph
			1	Tricorythodes Nymph
Mottled Sculpin	33	.50	2	Hydropsychidae Larvae
Mottled Sculpin	34	.57	5	Baetidae Nymph
			1	Choroterpes Nymph
Mottled Sculpin	31	.39	10	Baetidae Nymph

APPENDIX H-14-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 33 Replicate A Date 8-3-76				
Flannelmouth Sucker	258	177.44	1	Simuliidae Pupae
			1	Baetidae Nymph
			6	Hydropsychidae Larvae
			10	Hydropsyche Larvae
			5	Tricorythodes Nymph
			2	Oecetis Larvae
Station 33 Replicate B Date 8-3-76				
Flannelmouth Succer	437	710		Nothing found
Bluehead Sucker	237	120		Nothing found
Station 34 Replicate A Date 8-3-76				
Flannelmouth Sucker	370	490	16	Chironomidae Larvae
			1	Simuliidae Larvae
			1	Hydropsyche Larvae
			1	Ephemerella Nymph
			1	Rhithrogena Nymph
			2	Hydroptilidae Larvae
			1	Acari
Flannelmouth Sucker	287	220		Nothing found
Mottled Sculpin	31	.43	4	Baetidae Nymph
Station 34 Replicate B Date 8-3-76				
Flannelmouth Sucker	367	450	62	Chironomidae Larvae
			3	Ceratopogonidae Larvae
			1	Ant
			1	Ephemerella Nymph
			2	Tricorythodes Nymph
			1	Limnophila Larvae
			1	Oecetis Larvae
Station 35 Replicate A Date 8-3-76				
Mottled Sculpin	37	.61	4	Choroterpes Nymph
			2	Tricorythodes Nymphs

APPENDIX H-14-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 35 Replicate A Date 8-3-76				
Mottled Sculpin	35	.50	2	Choroterpes Nymph
			3	Baetidae Nymph
Mottled Sculpin	33	.47	3	Tricorythodes Nymphs
Mottled Sculpin	35	.45	1	Choroterpes Nymph
			3	Tricorythodes Nymph
Mottled Sculpin	35	.44	1	Baetidae Nymph
			1	Corixidae Adult
Mottled Sculpin	33	.45	1	Choroterpes Nymph
			1	Baetidae Nymph
			3	Tricorythodes Nymph
Mottled Sculpin	36	.52	2	Baetidae Nymph
Mottled Sculpin	31	.32	1	Simuliidae Larvae
Mottled Sculpin	32	.43	1	Chironomidae
			1	Tricorythodes Nymph
Mottled Sculpin	31	.36	1	Traverella albertana Nymph
Mottled Sculpin	33	.40	3	Tricorythodes Nymph
Mottled Sculpin	32	.36	4	Baetidae Nymph
			1	Traverella albertana Nymph
Mottled Sculpin	31	.31	2	Baetidae Nymph
Mottled Sculpin	28	.24	4	Baetidae Nymph
Station 35 Replicate B Date 8-3-76				
Mottled Sculpin	38	.68	2	Baetidae Nymph
Mottled Sculpin	34	.49	4	Baetidae Nymph
			1	Hydropsychidae Larvae
Mottled Sculpin	34	.49	3	Baetidae Nymph
			2	Hydropsychidae Larvae
Mottled Sculpin	32	.43	3	Baetidae Nymph
			1	Choroterpes Nymph
Mottled Sculpin	35	.51	1	Baetidae Nymph
			2	Traverella albertana Nymph
Mottled Sculpin	32	.44	2	Tricorythodes Nymph
Mottled Sculpin	28	.37	1	Rhithrogena Nymph
			2	Baetidae Nymph
Mottled Sculpin	33	.51	3	Baetidae Nymph

APPENDIX H-15-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-15-1

LIST OF FISH SPECIES AND NUMBERS CAPTURED
WHITE RIVER AND LOWER YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES, AUGUST - SEPTEMBER 1976

Common Name	Scientific Name	Number Captured
Roundtail Chub	Gila robusta	27
Flannelmouth Sucker	Catostomus latipinnis	90
Bluehead Sucker	Catostomus discobolus	54
Mottled Sculpin	Cottus bairdi	211
Speckled Dace	Rhinichthys osculus	384
Fathead Minnow	Pimephales promelas	48
Red Shiner	Notropis lutrensis	4
Carp	Cyprinus carpio	49

APPENDIX H-15-2

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES
AUGUST-SEPTEMBER 1976

APPENDIX H-15-2

FISH DATA, WHITE RIVER AND YELLOW CREEK
RBOSP AQUATIC BASELINE STUDIES,
AUGUST-SEPTEMBER 1976

Station Replicate	Date	Species	Length (mm)	Weight (gm)
23-A	9-3-76	Roundtail Chub	319	255.6
		"	318	295
		Flannelmouth Sucker	398	620
		"	239	121.2
		"	245	165
		"	187	85
		"	186	52.85
		"	185	88
		"	184	51.6
		"	175	45.85
		"	155	36.25
		"	154	75
		"	56	1.5
		"	44	.7
		Bluehead Sucker	233	155
		"	127	18.9
		Mottled Sculpin	85	7.6
		"	77	5.2
		"	49	1.5
		"	49	1.35
		"	43	.8
		Speckled Dace	95	9.05
		"	86	6.20
		"	82	5.25
		"	80	4.65
		"	69	2.95
		"	68	3.00
		"	50	1.20
		"	47	1.05
		"	46	.95
		"	46	.80
		"	45	.83
		"	44	.75
		"	44	.69
		"	43	.80
		"	43	.73
		"	43	.65
		"	42	.62
		"	40	.51
		"	40	.46
		"	37	.40
		"	35	.35

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
23-A	9-3-76	Speckled Dace	35	.30
		"	33	.20
23-B	9-3-76	Roundtail Chub	47	1.07
		Flannelmouth Sucker	58	1.91
		"	48	1.11
		Mottled Sculpin	98	12.85
		"	51	2.05
		"	51	2.04
		"	47	1.68
		"	45	1.54
		Speckled Dace	97	9.68
		"	95	8.99
		"	86	6.30
		"	85	6.30
		"	84	6.24
		"	74	4.04
		"	45	.98
		"	44	1.05
		"	43	.77
		"	42	.89
		"	42	.69
		"	41	1.00
		"	40	1.06
		"	38	.80
		"	37	1.10
		"	35	1.09
24-A	9-2-76	Flannelmouth Sculpin	49	.92
		Mottled Sculpin	95	10.17
		"	88	9.10
		"	84	8.24
		"	57	2.34
		"	50	1.66
		"	50	1.25
		"	49	1.59
		"	49	1.43
		"	47	1.14
		"	47	1.05
		"	46	.97
		"	46	.95
		"	45	1.00
		"	45	.96
		"	44	1.09
		"	44	.91
		"	43	.86
		"	39	.62

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
24-A	9-2-76	Speckled Dace	54	1.55
		"	53	.99
		"	49	1.23
		"	46	1.03
		"	45	.94
		"	45	.94
		"	45	.85
		"	45	.85
		"	44	.89
		"	44	.87
		"	44	.79
		"	44	.79
		"	43	.84
		"	43	.80
		"	42	.75
		"	42	.71
		"	41	.74
		"	41	.70
		"	41	.68
		"	40	.65
		"	40	.60
		"	38	.53
		"	37	.55
		"	37	.47
		"	36	.47
		"	35	.44
		"	35	.43
		"	35	.40
		"	35	.39
		"	35	.38
		"	35	.36
		"	34	.41
		"	33	.40
		"	33	.35
		"	31	.28
		"	30	.28
		"	30	.27
		"	30	.26
		"	30	.25
		"	27	.20
24-B	9-2-76	Flannelmouth Sucker	50	1.27
		"	50	1.20
		Mottled Sculpin	53	2.35
		"	53	2.11
		"	52	2.17
		"	51	1.94
		"	50	1.78
		"	48	1.69
		"	48	1.52

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
24-B	9-2-76	Mottled Sculpin	48	1.13
		"	47	1.58
		"	46	1.62
		"	46	1.40
		"	46	1.39
		"	44	1.43
		"	44	1.24
		"	38	.79
		"	37	.81
		Speckled Dace	80	3.99
		"	51	1.52
		"	46	1.07
		"	44	.96
		"	43	.98
		"	42	1.00
		"	39	.81
		"	37	.72
		"	34	.52
25-A	9-2-76	Bluehead Sucker	97	9.44
		Mottled Sculpin	92	10.21
		"	79	6.76
		"	76	6.01
		"	72	5.31
		Speckled Dace	87	6.79
		"	83	6.14
		"	80	5.09
		"	79	5.32
		"	78	4.61
		"	76	4.61
		"	73	4.08
25-B	9-2-76	Mottled Sculpin	99	13.52
		"	96	12.27
		"	94	12.19
		"	92	11.29
		"	89	10.20
		"	87	10.09
		"	87	9.54
		"	83	8.55
		"	78	7.98
		"	75	6.81
		"	41	1.58
		Speckled Dace	86	4.96
		"	49	1.35
26-A	9-2-76	Mottled Sculpin	85	10.56
		"	91	8.82
		"	53	1.77

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
26-A	9-2-76	Mottled Sculpin	52	1.82
		"	50	1.64
		"	49	1.45
		"	48	1.45
		"	46	1.21
		"	45	1.14
		"	45	1.12
		"	44	1.11
		"	44	1.00
		"	44	.94
		"	39	.74
		Speckled Dace	81	5.22
		"	56	1.72
		"	47	1.01
		"	42	.81
		"	42	.81
		"	41	.76
		"	41	.64
		"	40	.60
		"	39	.67
		"	35	.43
		"	30	.28
26-B	9-2-76	Mottled Sculpin	90	10.27
		"	87	9.29
		"	86	9.40
		"	76	6.79
		"	57	1.20
		"	53	2.45
		"	52	2.31
		"	51	2.45
		"	51	2.24
		"	50	1.94
		"	48	2.00
		"	47	1.83
		"	47	1.82
		"	45	1.62
		"	45	1.54
		"	42	1.41
		"	37	1.23
		Speckled Dace	76	5.52
		"	75	5.35
		"	73	4.45
		"	49	1.76
		"	45	1.43
		"	40	1.13
		"	39	1.09
		"	31	.83

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
26-B	9-2-76	Speckled Dace	30	.78
		"	29	.71
		"	27	.77
		Red Shiner	34	2.17
27-A	8-31-76	Roundtail Chub	48	1.03
		"	48	.87
		"	48	.86
		"	45	.89
		"	45	.67
		"	45	.65
		"	44	.81
		"	42	.61
		"	41	.58
		"	41	.58
		"	40	.55
		"	36	.46
		"	36	.38
		"	26	.19
		Flannelmouth Sucker	157	36.62
		"	153	29.89
		"	121	17.54
		"	121	12.99
		"	113	12.40
		"	111	12.23
		"	109	12.44
		"	100	9.42
		"	91	7.58
		"	68	2.01
		"	63	2.82
		"	61	1.89
		"	58	1.79
		"	57	1.30
		"	56	1.40
		"	55	1.20
		"	49	.81
		"	49	.43
		"	47	.87
		"	47	.75
		"	46	.76
		"	45	.73
		"	45	.72
		"	45	.71
		"	44	.70
		"	44	.70
		"	41	.59
		"	41	.58

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-A	8-31-76	Flannelmouth Sucker	41	.58
		"	41	.55
		"	40	.52
		"	38	.46
		"	36	.19
		Bluehead Sucker	102	9.60
		"	89	6.22
		"	88	6.76
		"	86	6.21
		"	84	5.13
		"	84	4.89
		"	82	5.49
		"	82	5.29
		"	82	5.23
		"	82	5.20
		"	80	5.18
		"	79	3.21
		"	75	4.32
		"	71	3.75
		"	65	2.50
		"	48	1.06
		"	45	.94
		"	45	.89
		"	44	.78
		"	44	.70
		"	41	.76
		"	41	.73
		"	41	.58
		"	38	.36
		"	37	.58
		"	37	.50
		"	35	.42
		"	34	.40
		"	33	.40
		"	33	.33
		"	32	.39
		"	32	.34
		"	31	.49
		"	27	.12
		Mottled Sculpin	90	10.99
		"	49	1.71
		"	48	1.50
		"	47	1.58
		"	47	1.36
		"	45	1.14
		"	44	1.33

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-A	8-31-76	Mottled Sculpin	44	1.22
		"	44	1.17
		"	42	1.56
		"	42	1.19
		"	41	.99
		"	35	.61
		Speckled Dace	91	8.15
		"	84	5.92
		"	81	5.29
		"	78	5.08
		"	78	4.71
		"	75	4.39
		"	72	3.70
		"	66	3.02
		"	51	1.45
		"	44	.82
		"	43	.83
		"	43	.81
		"	43	.80
		"	43	.79
		"	42	.76
		"	42	.75
		"	41	.77
		"	41	.69
		"	41	.57
		"	37	.48
		"	37	.52
		"	37	.49
		"	36	.46
		"	36	.46
		"	36	.41
		"	36	.39
		"	36	.37
		"	36	.26
		"	35	.44
		"	35	.42
		"	35	.32
		"	34	.35
		"	34	.30
		"	33	.48
		"	33	.44
		"	32	.35
		"	32	.33
		"	32	.27
		"	31	.29
		"	31	.25
		"	31	.21

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-A	8-31-76	Speckled Dace	30	.20
		"	29	.36
		"	29	.21
		"	28	.27
		"	28	.20
		"	27	.26
		"	26	.19
		"	26	.17
		Carp	124	32.81
		"	111	25.56
		"	109	23.43
		"	106	21.80
		"	106	18.62
		"	101	17.28
		"	95	16.34
		"	95	15.02
		"	95	13.42
		"	94	14.13
		"	93	13.82
		"	92	12.46
		"	91	12.98
		"	89	13.05
		"	87	11.85
		"	87	11.21
		"	87	10.13
		"	85	10.83
		"	85	9.80
		"	84	9.17
		"	82	7.40
		"	78	7.80
		"	76	7.54
		"	68	6.09
		"	59	3.32
		"	57	3.01
		Fathead Minnow	74	4.86
		"	64	3.49
		"	63	3.10
		"	59	2.27
		"	58	2.30
		"	57	2.28
		"	54	1.53
		"	51	1.39
		"	51	1.59
		"	50	1.43
		"	49	1.29
		"	47	1.29
		"	47	1.06

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-A	8-31-76	Fathead Minnow	46	1.15
		"	46	1.00
		"	45	1.10
		"	45	.92
		"	44	1.04
		"	43	.80
		"	43	.77
		"	42	.87
		"	40	.71
		"	37	.61
		"	34	.46
27-B	8-31-76	Roundhead Chub	45	.72
		"	45	.67
		"	41	.56
		"	41	.52
		"	40	.49
		"	40	.47
		Flannelmouth Sucker	179	58.79
		"	153	37.45
		"	151	32.10
		"	108	11.41
		"	105	10.09
		"	89	6.20
		Bluehead Sucker	101	8.99
		"	78	4.50
		"	75	3.61
		"	74	4.21
		"	73	3.57
		"	69	3.41
		"	65	2.76
		"	49	1.13
		"	45	1.01
27-B	8-31-76	Bluehead Sucker	42	.60
		"	40	.99
		"	39	.84
		"	37	.45
		"	33	.47
		Mottled Sculpin	51	1.70
		Speckled Dace	88	6.28
		"	87	6.77
		"	80	4.67
		"	75	4.29
		"	74	3.92
		"	46	1.15
		"	45	.84
		"	44	.88
		"	43	.78

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
27-B	8-31-76	Speckled Dace	40	.55
		"	40	.56
		"	39	.67
		"	37	.65
		"	34	.36
		"	30	.25
		"	29	.21
		"	21	.39
		Carp	110	23.90
		"	103	18.68
		"	102	19.82
		"	97	17.47
		"	97	16.27
		"	95	15.52
		"	88	11.30
		"	87	11.69
		"	81	8.78
		"	76	7.18
		Fathead Minnow	64	3.07
		"	63	2.76
		"	42	.76
28-A	8-31-76	Flannelmouth Sucker	55	1.48
		"	55	1.39
		"	54	1.32
		"	51	1.21
		"	51	1.17
		"	49	1.20
		"	49	1.03
		"	47	1.01
		"	45	.91
		"	44	.98
		"	42	.66
		"	40	.65
		"	39	.69
		"	39	.66
		"	38	.71
		"	38	.63
		Mottled Sculpin	100	16.15
		"	96	14.56
		"	52	2.40
		"	49	2.02
		"	49	2.01
		"	49	1.88
		"	47	1.86
		"	47	1.81
		"	46	1.74
		"	45	1.51
		"	44	1.61

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
28-A	8-31-76	Mottled Sculpin	43	1.19
		"	42	1.34
		"	42	1.30
		"	40	1.35
		Speckled Dace	50	1.30
		"	48	.83
		"	46	.93
		"	45	.93
		"	45	.90
		"	45	.84
		"	45	.74
		"	44	.76
		"	44	.75
		"	44	.68
		"	44	.66
		"	43	.78
		"	43	.71
		"	42	.81
		"	42	.70
		"	42	.67
		"	42	.66
		"	41	.65
		"	41	.65
		"	41	.62
		"	41	.55
		"	40	.70
		"	40	.60
		"	40	.59
		"	40	.59
		"	40	.58
		"	40	.55
		"	40	.47
		"	40	.47
		"	39	.53
		"	38	.53
		"	38	.53
		"	38	.45
		"	38	.39
		"	37	.52
		"	37	.47
		"	36	.46
		"	36	.45
		"	36	.38
		"	36	.38
		"	36	.35
		"	36	.33
		"	36	.30

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Sepcies	Length (mm)	Weight (gm)
28-A	8-31-76	Speckled Dace	35	.43
		"	35	.43
		"	35	.40
		"	35	.37
		"	34	.38
		"	31	.24
		"	30	.29
		"	30	.22
		"	30	.21
		"	30	.21
		"	28	.20
		"	26	.15
		Carp	123	34.36
		"	99	18.09
		"	99	17.17
		"	93	16.72
		"	92	13.73
		"	89	11.05
		"	73	6.84
		Flathead Minnow	65	3.40
		"	64	3.13
		"	62	3.43
		"	61	2.90
		"	60	2.89
		"	59	2.65
		"	55	2.21
		"	54	2.19
		"	54	1.77
		"	52	1.73
		"	49	1.44
		"	49	1.43
		"	48	1.45
		"	47	1.14
		"	46	1.28
		"	46	1.26
		"	46	1.22
		"	45	1.31
		"	36	.78
		Red Shiner	36	1.05
28-B	9-31-76	Roundtail Chub	47	.93
		Flannelmouth Sucker	66	2.66
		"	65	2.20
		"	56	1.47
		"	55	1.29
		"	42	1.38
		"	42	.65

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
28-B	8-31-76	Bluehead Sucker	38	.59
		"	32	.37
		Mottled Sculpin	110	17.52
		"	96	10.92
		"	84	8.08
		"	57	1.46
		"	49	1.54
		"	48	1.46
		"	44	1.05
		Speckled Dace	43	.65
		"	41	.62
		"	41	.48
		"	38	.48
		"	38	.46
		"	36	.36
		"	36	.34
		"	36	.39
		"	35	.32
		"	35	.33
		"	33	.26
		"	32	.30
		"	32	.30
		"	31	.29
		"	30	.20
		"	29	.22
		Carp	120	37.61
		"	98	15.34
		"	91	14.02
		"	89	12.55
		"	85	10.38
		Red Shiner	63	3.08
		"	53	1.55
29-A	8-31-76	Mottled Sculpin	103	18.78
		"	84	9.74
		"	53	2.20
		"	52	2.06
		"	45	1.43
		"	44	1.34
		"	43	1.30
		"	42	1.10
		Speckled Dace	43	.94
		"	42	.90
		"	42	.85
		"	42	.83
		"	41	.74
		"	40	.73
		"	39	.66

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
29-A	8-31-76	Speckled Dace	39	.61
		"	36	.47
		"	35	.41
		"	35	.38
		"	34	.49
		"	33	.39
		"	32	.29
		"	31	.26
29-B	8-31-76	Roundtail Chub	38	.57
		Flannelmouth Sucker	43	.95
		"	42	.74
		Mottled Sculpin	51	1.92
		"	48	1.53
		"	46	1.57
		"	45	1.43
		"	44	1.48
		"	44	1.28
		"	40	1.04
		"	39	.95
		Speckled Dace	85	6.85
		"	46	1.24
		"	45	1.03
		"	40	.82
		"	39	.82
		"	38	.72
		"	37	.55
		"	36	.68
		"	36	.68
		"	36	.63
		"	36	.59
		"	36	.55
		"	35	.57
		"	34	.53
		"	31	.34
		"	29	.22
		"	28	.29
		"	27	.22
		"	26	.44
		"	25	.40
		"	24	.31
30-A	9-1-76	Mottled Sculpin	80	6.11
		"	46	1.49
		"	44	1.29
		"	37	1.00
		Speckled Dace	101	10.32
		"	67	3.23
		"	40	.76

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
30-A	9-1-76	Mottled Sculpin	40	.65
		"	38	.69
		"	38	.62
		"	37	.75
		"	37	.70
		"	37	.68
		"	35	.60
		"	31	.42
		"	29	.48
		"	29	.36
		"	26	.33
		"	24	.31
30-B	9-1-76	Mottled Sculpin	51	2.27
		"	37	1.18
		Speckled Dace	75	4.73
		"	47	1.46
		"	40	1.15
		"	40	1.06
		"	39	.97
		"	37	.91
		"	36	.94
		"	36	.88
		"	33	.87
		"	33	.86
		"	32	.82
		"	31	.73
31-B	9-1-76	Flannelmouth Sucker	101	9.80
		Mottled Sculpin	91	11.45
32-A	9-1-76	Mottled Sculpin	84	8.51
		"	46	1.32
		"	44	1.30
		"	44	1.24
		"	41	.99
		Speckled Dace	41	.69
		"	41	.60
		"	40	.62
		"	31	.38
32-B	9-1-76	Mottled Sculpin	52	1.75
		"	50	1.56
		"	48	1.42
		"	47	1.62
		"	46	1.36

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
32-B	9-1-76	Mottled Sculpin	45	1.25
		"	38	.75
		Speckled Dace	86	7.00
		"	72	4.25
		"	71	4.20
		"	45	.95
		"	43	.99
		"	41	.76
		"	40	.65
		"	37	.50
		"	34	.45
33-A	8-30-76	Flannelmouth Sucker	158	37.60
		Bluehead Sucker	111	13.08
		Mottled Sculpin	33	.54
33-B	8-30-76	Flannelmouth Sucker	50	1.31
		Mottled Sculpin	83	8.66
		"	49	1.78
		"	42	1.15
34-A	8-30-76	Flannelmouth Sculpin	292	222
		Mottled Sculpin	103	15.55
		"	82	7.09
		"	53	1.99
		"	49	1.52
		"	49	1.42
		"	48	1.52
		"	47	1.47
		"	45	1.18
		"	41	.91
		"	41	.88
		"	34	.53
		Speckled Dace	110	13.75
		"	92	7.88
		"	42	.90
		"	41	.77
		"	35	.51
		"	33	.38
		"	33	.37
		Fathead Minnow	43	.78
34-B	8-30-76	Mottled Sculpin	96	11.50
		"	91	9.92
		"	86	8.23
		"	51	2.10
		"	43	1.38
		"	42	1.29
		Speckled Dace	35	9.38
		"	26	4.88
35-A	8-30-76	Flannelmouth Sculpin	51	2.67
		"	50	1.15

Station Replicate	Date	Species	Length (mm)	Weight (gm)
35-A	8-30-76	Mottled Sculpin	96	12.80
		"	95	13.96
		"	92	13.03
		"	89	11.10
		"	88	11.42
		"	87	10.34
		"	86	10.58
		"	86	9.82
		"	51	2.18
		"	48	1.84
		"	47	1.79
		"	44	1.40
		"	42	1.30
		"	41	1.31
		"	41	1.28
		Speckled Dace	96	10.78
		"	96	9.89
		"	89	8.59
		"	89	8.17
		"	86	7.01
		"	80	6.39
		"	66	3.97
		"	52	1.92
		"	47	1.60
		"	46	1.61
		"	45	1.44
		"	44	1.57
		"	43	1.39
		"	43	1.38
		"	39	1.17
		"	39	1.17
		"	37	1.02
		"	33	.86
		"	31	.82
		"	30	.79
		"	30	.74
		"	29	.74
		"	27	.73
35-B	8-30-76	Roundtail Chub	45	.72
		"	42	.59
		Flannelmouth Sucker	55	1.20
		"	51	.89
		"	48	.93
		"	46	.74
		Mottled Sculpin	103	11.48
		"	88	9.30
		"	82	7.38
		"	81	6.58
		"	71	6.51
		"	51	1.53

APPENDIX H-15-2 (Continued)

Station Replicate	Date	Species	Length (mm)	Weight (gm)
35-B	8-30-76	Mottled Sculpin	50	1.34
		"	47	1.11
		"	47	1.10
		"	46	1.06
		"	45	1.10
		"	42	.85
		"	41	.96
		"	39	.70
		Speckled Dace	82	6.20
		"	76	4.14
		"	66	2.69
		"	45	1.04
		"	44	.85
		"	43	.88
		"	43	.83
		"	43	.70
		"	41	.49
		"	39	.76
		"	35	.36
		"	35	.33
		"	34	.40
		"	33	.33
		"	33	.26
		"	31	.32
		"	31	.23
		"	30	.27
		"	30	.25
		"	27	.17
		Carp	83	9.25
		Fathead Minnow	56	1.92

APPENDIX H-15-3

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES
AUGUST - SEPTEMBER 1976

APPENDIX H-15-3

RESULTS OF FOOD HABIT ANALYSIS FOR INDIVIDUAL FISH
RBOSP AQUATIC BASELINE STUDIES, AUGUST-SEPTEMBER 1976

Species	Length (mm)	Weight (gm)	Food Item #	
Station 23 Replicate A Date 8-4-76				
Flannelmouth sucker	380	405	20	Chironomidae larvae
			1	Chironomidae pupae
			4	Baetidae nymph
			12	Hydropsychidae larvae
			2	Hydropsyche larvae
			10	Ephemerella nymph
			26	Tricorythodes nymph
			1	Dytiscidae larvae
			1	Hydroptilidae larvae
			1	Traverella albertana nymph
			2	Oecetis larvae
			1	Empididae larvae
			2	Choroterpes nymph
Flannelmouth sucker	247	45	10	Parasite
Flannelmouth sucker	249	50	3	Chironomidae larvae
			9	Baetidae nymph
			7	Hydropsychidae larvae
			4	Ephemerella nymph
			21	Tricorythodes nynph
			1	Traverella albertana nymph
Bluehead sucker	208	15	2	Homoptera (contamination?)
Roundtail chub	287	95	3	Tapeworm
Station 23 Replicate B Date 8-4-76				
Flannelmouth sucker	442	695	13	Chironomidae larvae
			1	Simuliidae larvae
			4	Plecoptera nymph
			19	Baetidae nymph
			22	Hydropsychidae larvae
			5	Hydropsyche larvae
			1	Heptagenia nymph
			24	Ephemerella nymph
			52	Tricorythodes nymph
			8	Rhithrogena nymph
			2	Hydroptilidae larvae
			1	Limnophila larvae
			16	Traverella albertana nymph
			1	Anisoptera nymph
			1	Oecetis larvae
			1	Brachycentrus larvae

APPENDIX H-15-3 (Continued)

Species	Length (mm)	Weight (gm)	Food Item #	
Station 23 Replicate B 8-4-76				
Flannelmouth sucker	438	670	14	Chironomidae larvae
			10	Baetidae nymph
			11	Hydropsychidae larvae
			25	Ephemerella nymph
			53	Trichorythodes nymph
			3	Rhithrogena hymph
			2	Hydroptilidae larvae
			2	Limnophila larvae
			4	Traverella albertana nymph
			1	Simulium pupae
			1	Oecetis larvae
			2	Choroterpes nymph
Station 24 Replicate A Date 8-7-76				
Mottled sculpin	42	.86	8	Baetidae nymph
			1	Hydropsyche larvae
			6	Tricorythodes nymph
Mottled sculpin	38	.70	3	Tricorythodes nymph
Mottled sculpin	35	.52	1	Tricorythodes nymph
Mottled sculpin	34	.48		None observed
Mottled sculpin	35	.51	12	Baetidae nymph
			1	Rhithrogena nymph
Mottled sculpin	33	.43	1	Chironomidae larvae
			2	Hydropsychidae larvae
			1	Tricorythodes nymph
Station 24 Replicate B Date 8-7-76				
Mottled sculpin	74	6.52	2	Tricorythodes nymph
			1	Choroterpes nymph
Mottled sculpin	36	.60	1	Baetidae nymph
			2	Tricorythodes nymph
			1	Choroterpes nymph
Mottled sculpin	37	.58	1	Tricorythodes nymph
Station 26 Replicate A Date 8-7-76				
Mottled sculpin	91	11.86	1	Hydropsychidae larvae
			2	Trichorythodes nymph
			3	Choroterpes nymph
Mottled sculpin	39	.80		None observed
Mottled sculpin	37	.73	1	Simuliidae larvae
			2	Hydropsychidae larvae
			3	Trichorythodes nymph

APPENDIX H-15-3 (Continued)

Station 26 Replicate A Date 8-7-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	36	.62	1	Tricorythodes nymph
			1	Traverella albertana nymph
			7	Hydropsychidae larvae
Mottled sculpin	36	.73	2	Chironomidae larvae
			2	Baetidae larvae
Mottled sculpin	37	.71	2	Baetidae larvae
			2	Hydropsychidae hymph
	36	.67	2	Chironomidae larvae
			2	Baetidae nymph
			1	Hydropsychidae larvae
			2	Trichorythodes nymph
Mottled sculpin	35	.58	1	Chironomidae larvae
			1	Hydropsychidae larvae
			1	Tricorythodes nymph
Mottled sculpin	35	.71	1	Baetidae nymph
			1	Hydropsychidae larvae
Mottled sculpin	34	.53		None observed
Mottled sculpin	33	.53	1	Chironomidae larvae
			3	Trichorythodes nymph
Mottled sculpin	33	.50	1	Baetidae nymph
			1	Traverella albertana nymph

Station 26 Replicate B Date 8-7-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	82	7.79	1	Chironomidae larvae
			2	Hydropsyche larvae
			1	Traverella albertana nymph
Mottled sculpin	51	1.88	1	Chironomidae larvae
			1	Simuliidae larvae
			1	Tricorythodes nymph
			1	Traverella albertana nymph
Mottled sculpin	37	.74	4	Baetidae nymph
Mottled sculpin	32	.50	1	Tricorythodes nymph

APPENDIX H-15-3 (Continued)

Station 27 Replicate A Date 8-2-76

Species	Length (mm)	Weight (gm)	Food Item #	
Flannelmouth sucker	360	580	22	Chironomidae larvae
			4	Chironomidae pupae
			1	Ceratopogonidae larva
			19	Baetidae nymph
			1	Hydropsychidae larvae
			2	Hydropsyche larvae
			1	Corixidae nymph
			4	Ephemerella nymph
			6	Tricorythodes nymph
			3	Hydroptilidae larvae
			1	Choroterpes nymph
Flannelmouth sucker	311	260	12	Chironomidae larvae
			7	Baetidae nymph
			2	Hydropsychidae larvae
			2	Hydropsyche larvae
			5	Ants
			4	Ephemerella nymph
			7	Tricorythodes nymph
			1	Rhithrogena nymph
			5	Hydroptilidae larvae
			1	Coleoptera adult
			1	Traverella albertana nymph
			1	Simulium pupae
			2	Choroterpes nymph
Flannelmouth sucker	311	245	17	Chironomidae larvae
			6	Baetidae nymph
			2	Hydropsychidae larvae
			1	Hydropsyche larvae
			8	Ephemerella nymph
			9	Tricorythodes nymph
			5	Hydroptilidae larvae
			2	Coleoptera adult
			2	Traverella albertana nymph
			1	Simulium pupae
			1	Empididae pupae
Flannelmouth sucker	293	200	13	Chironomidae larvae
			1	Chironomidae pupae
			10	Baetidae nymph
			4	Hydropsychidae larvae
			2	Hydropsyche larvae
			5	Ants
			4	Ephemerella nymph
			10	Tricorythodes nymph
			1	Empididae larvae
			1	Choroterpes nymph

Station 27 Replicate B Date 8-2-76

Species	Length (mm)	Weight (gm)	#	Food Item
Roundtail chub	316	220	1	Chironomidae larvae
			1	Corixidae female

Station 27 Replicate B Date 8-2-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	412	590	19	Chironomidae larvae
			1	Chironomidae pupae
			5	Baetidae nymph
			2	Hydropsychidae larvae
			1	Ants
			4	Ephemerella nymph
			6	Tricorythodes nymph
			2	Rhithrogena nymph
			1	Hydroptilidae larvae
			2	Corixidae nymph
			1	Brachycentrus larvae
			1	Choroterpes nymph
Flannelmouth sucker	293	225	9	Chironomidae larvae
			11	Baetidae nymph
			2	Hydropsychidae larvae
			1	Hydropsyche larvae
			1	Ant
			3	Ephemerella nymph
			19	Tricorythodes nymph
			2	Hydroptilidae larvae
			2	Simulium pupae
			1	Choroterpes nymph
Flannelmouth sucker	249	120	10	Chironomidae larvae
			2	Chironomidae pupae
			8	Baetidae nymph
			1	Hydropsychidae larvae
			1	Ant
			6	Ephemerella nymph
			12	Tricorythodes nymph
			4	Hydroptilidae larvae
			2	Traverella albertana nymph
			1	Empididae pupae

APPENDIX H-15-3 (Continued)

Station 28 Replicate A Date 8-2-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	28	.15	57	Chironomidae larvae
			1	Ceratopogonidae larvae
			7	Nematoda

Station 29 Replicate A Date 8-2-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	352	375	50	Chironomidae larvae
			1	Chironomidae pupae
			5	Simuliidae larvae
			49	Baetidae nymph
			56	Hydropsychidae larvae
			43	Hydropsyche larvae
			1	Ephemerella nymph
			4	Tricorythodes nymph
			3	Rhithrogena nymph
			1	Hydroptilidae larvae
			5	Traverella albertana nymph
			1	Choroterpes nymph
Mottled sculpin	36	.75	9	Baetidae nymph
Mottled sculpin	38	.84	4	Baetidae nymph
			1	Hydropsychidae larvae
Mottled sculpin	43	1.04		None observed
Mottled sculpin	36	.84	2	Baetidae nymph
Mottled sculpin	36	.66	1	Baetidae nymph
Mottled sculpin	35	.60	2	Baetidae nymph

Station 29 Replicate B Date 8-2-76

Species	Length (mm)	Weight (gm)	#	Food Item
Mottled sculpin	39	.79	1	Baetidae nymph
			1	Tricorythodes nymph
			1	Traverella albertana nymph
Mottled sculpin	36	.68	3	Baetidae nymph
			1	Rhithrogena nymph
			1	Traverella albertana nymph
Mottled sculpin	35	.62	1	Baetidae nymph

Station 30 Replicate A Date 8-6-76

Species	Length (mm)	Weight (gm)	Food Item #	
Flannelmouth sucker	225	.75		None observed
Mottled sculpin	35	.50	1	Chironomidae larvae
			5	Tricorythodes nymph
Mottled sculpin	40	.73	1	Hydropsychidae larvae
			1	Baetidae nymph
			1	Tricorythodes nymph
			2	Traverella albertana nymph
Mottled sculpin	35	.50	1	Ephemerella nymph
			2	Tricorythodes nymph
			1	Traverella albertana nymph
	33	.45	2	Tricorythodes nymph

Station 31 Replicate A Date 8-6-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	81	7.24	4	Hydropsychidae larvae

Station 32 Replicate A Date 8-6-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	34	.51		None observed
Mottled sculpin	36	.53	3	Chironomidae larvae

Station 32 Replicate B Date 8-6-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	40	.85	1	Hydropsychidae larvae
			2	Tricorythodes nymph
Mottled sculpin	35	.63	17	Baetidae nymph
			1	Tricorythodes nymph
Mottled sculpin	33	.50	2	Hydropsychidae larvae
Mottled sculpin	34	.57	5	Baetidae nymph
			1	Choroterpes nymph
Mottled sculpin	31	.39	10	Baetidae nymph

Station 33 Replicate A Date 8-3-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	258	177.44	1	Simuliidae pupae
			1	Baetidae nymph
			6	Hydropsychidae larvae
			10	Hydropsyche larvae
			5	Tricorythodes nymph
			2	Oecetis larvae

Station 33 Replicate B Date 8-3-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	437	710		None observed
Bluehead sucker	237	120		None observed

Station 34 Replicate A Date 8-3-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth sucker	370	490	16	Chironomidae larvae
			1	Simuliidae larvae
			1	Hydropsyche larvae
			1	Ephemerella nymph
			1	Rhithrogena nymph
			2	Hydroptilidae larvae
			1	Acari
Flannelmouth sucker	287	220		None observed
Mottled sculpin	31	.43	4	Baetidae nymph

Station 34 Replicate B Date 8-3-76

Species	Length (mm)	Weight (gm)	#	Food Item
Flannelmouth scuker	367	450	62	Chironomidae larvae
			3	Ceratopogonidae larvae
			1	Ant
			1	Ephemerella nymph
			2	Tricorythodes nymph
			1	Limnophila larvae
			1	Oecetis larvae

APPENDIX H-15-3 (Continued)

Station 35 Replicate A Date 8-3-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	37	.61	4	Choroterpes nymph
			2	Tricorythodes nymphs
Mottled sculpin	35	.50	2	Choroterpes nymph
			3	Baetidae nymph
Mottled sculpin	33	.47	3	Tricorythodes nymphs
Mottled sculpin	35	.45	1	Choroterpes nymph
			3	Tricorythodes nymph
Mottled sculpin	35	.44	1	Baetidae nymph
			1	Corixidae adult
Mottled sculpin	33	.45	1	Choroterpes nymph
			1	Baetidae nymph
			3	Tricorythodes nymph
Mottled sculpin	36	.52	2	Baetidae nymph
Mottled sculpin	31	.32	1	Simuliidae larvae
Mottled sculpin	32	.43	1	Chironomidae larvae
			1	Tricorythodes nymph
Mottled sculpin	31	.36	1	Traverella albertana nymph
Mottled sculpin	33	.40	3	Tricorythodes nymph
Mottled sculpin	32	.36	4	Baetidae nymph
			1	Traverella albertana nymph
Mottled sculpin	31	.31	2	Baetidae nymph
Mottled sculpin	28	.24	4	Baetidae nymph

Station 35 Replicate B Date 8-3-76

Species	Length (mm)	Weight (gm)	Food Item #	
Mottled sculpin	38	.68	2	Baetidae nymph
Mottled sculpin	34	.49	4	Baetidae nymph
			1	Hydropsychidae larvae
Mottled sculpin	34	.49	3	Baetidae nymph
			2	Hydropsychidae larvae
Mottled sculpin	32	.43	3	Baetidae nymph
			1	Choroterpes nymph
Mottled sculpin	35	.51	1	Baetidae nymph
			2	Traverella albertana nymph
Mottled sculpin	32	.44	2	Tricorythodes nymph
Mottled sculpin	28	.37	1	Rhithrogena nymph
			2	Baetidae nymph
Mottled sculpin	33	.51	3	Baetidae nymph

2.4.9 SPRING & SEEPAGES

2.4.9 Spring and Seepages

Approximate locations of springs and seepages on or near Tract C-a are shown on Figure 2.4-2. No additional springs or seepages have been observed since Progress Report 8.

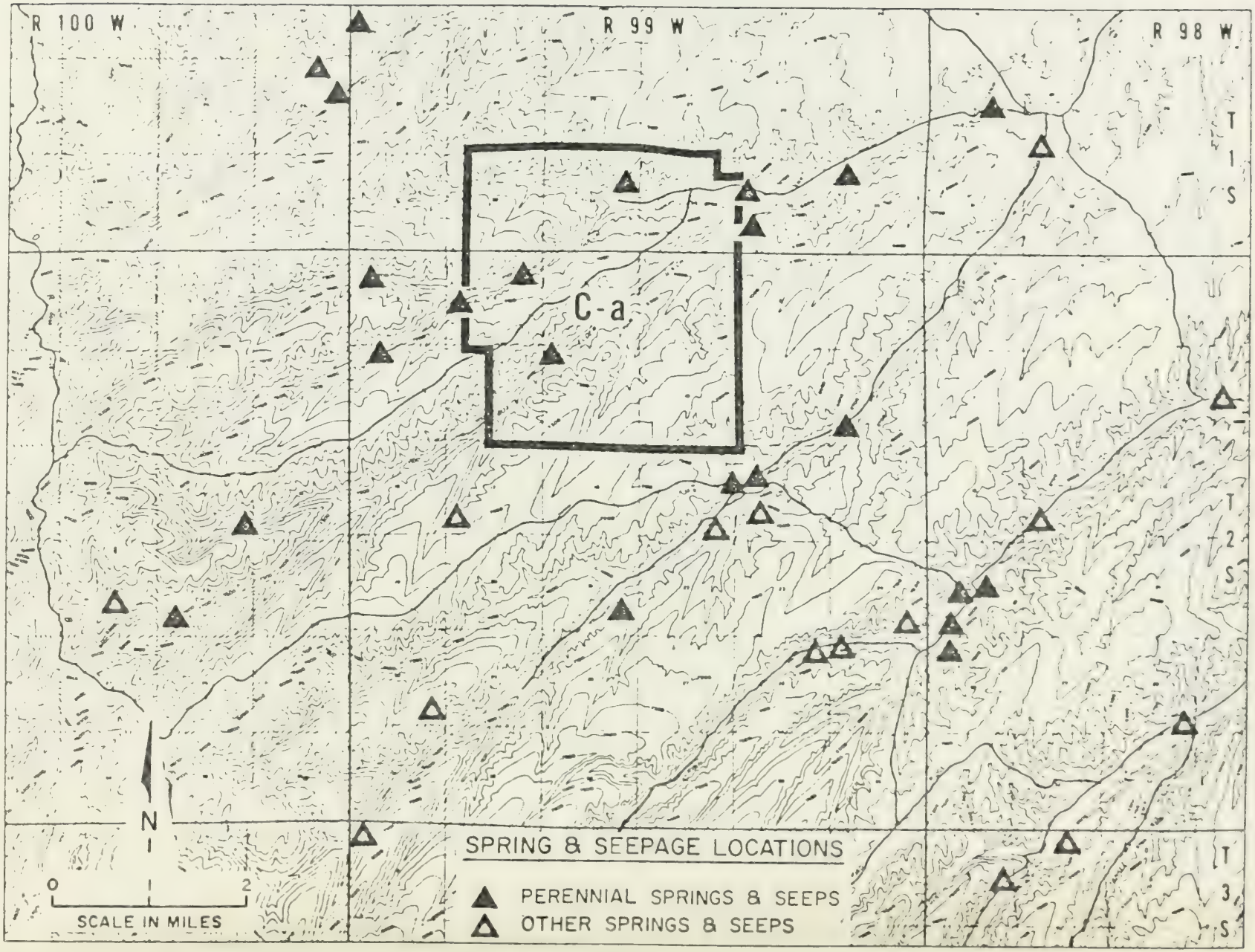

Figure 2.4-2. Spring and Seepage Locations

2.4.10 HYDROLOGY

2.4.10 Hydrology

The approximate stream velocities observed during the August - September 1976 sampling period are presented in Appendix H-16-1.

2.4.10 - Hydrology Data

STREAM FLOW RAW DATA

APPENDIX H-16-1

STREAM VELOCITY
RBOSP AQUATIC BASELINE STUDIES
AUGUST-SEPTEMBER, 1976.

APPENDIX H-16-1

STREAM VELOCITY, RBOSP AQUATIC BASELINE STUDIES, AUGUST -SEPTEMBER 1976
(Results are expressed in feet per second and, where appropriate, are given for bank side and point of maximum flow.)[1]

Station	Velocity (ft/sec)		
	s	m	s
1		1.7	
2		1.0	
3		1.0	
4		2.0	
5		1.3	
7		1.7	
8		1.1	
9		2.0	
13		1.4	
14		1.5	
19		1.2	
20		1.2	
21		0.7	
22		1.5	
23		2.0	
24		1.1	
25		3.1	
26		2.1	
27		0.9	
28		0.8	
29		3.3	
30		3.3	
31		~3.3	
32		2.5	
33		1.6;2.0;0.7	
34		2.1;2.8;0.8	
35		1.6;3.3;4.0	

[1] Stations 6, 10-12, and 15-18 were dry at the time of sampling.

Literature Cited

Rio Blanco Oil Shale Project, 1976. Progress Report 2, Aquatic Studies. Gulf Oil Corporation and Standard Oil (Indiana), Denver, Colorado.